

DETAILED TOOL LIST – TOOL BAG

| Tool Count | Tool # | Tool Description |
|------------|--------|------------------------------|
| 1 | 2 | Scissors |
| 2 | 3 | 6" Phillips driver bit |
| 3 | 4 | Magnetic pick-up |
| 4 | 5 | Inspection mirror |
| 5 | 6 | Pick tool |
| 6 | 7 | 1/2" Wood chisel |
| 7 | 8 | Mini pry bar |
| 8 | 9 | Magnetized LED Carry light |
| 9 | 10 | 16' tape measure |
| | 11 | SAE hex wrench set |
| 10 | 11a | 0.050" |
| 11 | 11b | 1/16" |
| 12 | 11c | 5/64" |
| 13 | 11d | 3/32" |
| 14 | 11e | 7/64" |
| 15 | 11f | 1/8" |
| 16 | 11g | 9/64" |
| 17 | 11h | 5/32" |
| 18 | 11i | 3/16" |
| 19 | 11j | 7/32" |
| 20 | 11k | 1/4" |
| 21 | 11l | 5/16" |
| 22 | 11m | 3/8" |
| 23 | 12 | Razor blade scraper |
| 24 | 13 | Tweezers |
| 25 | 14 | 3/32" Nail set punch |
| 26 | 15 | Electronic temperature probe |
| 27 | 16 | Voltage sensor |
| 28 | 17 | Tekton wire stripper |
| 29 | 18 | Diamond sharpening stone |
| 30 | 19 | Quick blade utility knife |

| Tool Count | Tool # | Tool Description |
|------------|--------|-------------------------------------|
| | 20 | Multi-bit mini-screwdriver |
| 31 | 20a | 5/64" slotted |
| 32 | 20b | 1/8" Slotted |
| 33 | 20c | 1/16" Slotted |
| 34 | 20d | 3/32" Slotted |
| 35 | 20e | #000 Phillips |
| 36 | 20f | #00 Phillips |
| 37 | 20g | #0 Phillips |
| 38 | 20h | #1 Phillips |
| 39 | 21 | Channellock needle nose pliers |
| 40 | 22 | 9" Needle nose locking pliers |
| 41 | 23 | 6" Adjustable wrench |
| | 24 | Saw handle |
| 42 | 25 | 6" round file |
| 43 | 26 | 4 in 1 file |
| 44 | 27 | Channellock 8" groove joint pliers |
| 45 | 28 | Channellock lineman's pliers |
| 46 | 29 | 1/4" x 4 Flat head screwdriver |
| 47 | 30 | Klein 11 in 1 multi bit-screwdriver |
| 48 | 30a | PH-1 phillips |
| 49 | 30b | PH-2 phillips |
| 50 | 30c | 3/16" slotted |
| 51 | 30d | 1/4" slotted |
| 52 | 30e | T-10 torx |
| 53 | 30f | T-15 torx |
| 54 | 30g | 3/8" Nut driver |
| 55 | 30h | 5/16" Nut drive |
| 56 | 30i | 1/4" Nut driver |
| 57 | 30j | #1 Square recess tip |
| 58 | 30k | #2 Square recess tip |
| 59 | 31 | Torpedo level |

| Tool Count | Tool # | Tool Description |
|------------|--------|--------------------------------|
| 60 | 32 | Hyde 6 in painters tool |
| 61 | 33 | SAE socket set with rack |
| 62 | 33a | SAE 1/4" socket |
| 63 | 33b | SAE 5/16" socket |
| 64 | 33c | SAE 3/8" socket |
| 65 | 33d | SAE 7/16" socket |
| 66 | 33e | SAE 1/2" socket |
| 67 | 33f | SAE 9/16" socket |
| | 33g | SAE 5/8" socket |
| 68 | 33h | SAE 11/16" socket |
| 69 | 33i | SAE 3/4" socket |
| 70 | 33j | SAE 13/16" socket |
| 71 | 33K | Socket rack |
| 72 | 34 | 3/8" ratchet |
| 73 | 35 | Small wire brush |
| 74 | 36 | Tooth brush |
| 75 | 37 | Calculator |
| 76 | 38 | Small tubing cutter |
| 77 | 39 | Stubby screwdriver |
| 78 | 39a | #2 phillips |
| 79 | 39b | 1/4" slotted |
| 80 | 40 | Nut driver bit set with holder |
| 81 | 40a | 1/4" Magnetic nut driver |
| 82 | 40b | 5/16" Magnetic nut driver |
| 83 | 40c | 3/8" Magnetic nut driver |
| | 40d | 7/16" Magnetic nut driver |
| 84 | 40e | 3/8" Socket bit |
| 85 | 40f | Nut driver bit holder |
| | 41 | 3" Socket extension |
| 86 | 42 | Stanley tripod LED flashlight |
| 87 | 43 | Tekton hammer |
| 88 | 44 | Tool bag parts box |

| Part Count | Part # | Part Description |
|------------|--------|---------------------|
| 1 | P85 | Electrical tape |
| 2 | P77 | Pencil |
| 3 | P78 | Marker |
| 4 | P79 | Saw blade |
| 5 | P79 | Saw blade box |
| 6 | P80 | Lubricant #1 |
| 7 | P81 | Lubricant #2 |
| 8 | P82 | Handwipes |
| 9 | P83 | Antibiotic ointment |
| 10 | P84 | Bandages |
| 11 | P86 | Pen |
| 12 | P87 | Note pad |



MS-CTB

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DETAILED TOOL LIST – LEFT MODULE

| Tool Count | Tool # | Tool Description |
|---|--------|-------------------------------------|
| 1 | 45 | Aluminum speed square |
| 2 | 46 | Compass |
| 3 | 47 | Safety glasses |
| 4 | 49 | Ruler with conversion table |
| | 50 | Angle screwdriver |
| Bits 50a - 50p found in driver bits box # 101 | | |
| 5 | 51 | Awl |
| 6 | 52 | Triangle file with handle |
| 7 | 53 | 10" Round file with handle |
| 8 | 54 | Metal file-flat/round with handle |
| 9 | 55 | Wood file-flat/round with handle |
| 10 | 56 | 3/16" x 8" Flat head screwdriver |
| 11 | 57 | 3/8" x 6" Phillips screwdriver |
| 12 | 58 | #3 x 6" Phillips screwdriver |
| 13 | 59 | 2x Spray bottle |
| 14 | 60 | Staple gun |
| 15 | 61 | Extension cord |
| 16 | 62 | Funnel |
| 17 | 63 | Caulk gun |
| 18 | 64 | Self lighting swivel head torch |
| | 65 | Combination wrench set with roll-up |
| 19 | 65a | 1/4" Combo wrench |
| 20 | 65b | 5/16" Combo wrench |
| 21 | 65c | 3/8" Combo wrench |
| 22 | 65d | 7/16" Combo wrench |
| 23 | 65e | 1/2" Combo wrench |
| 24 | 65f | 9/16" Combo wrench |

| Tool Count | Tool # | Tool Description |
|------------|--------|-----------------------------|
| 25 | 65g | 5/8" Combo wrench |
| 26 | 65h | 1 1/16" Combo wrench |
| 27 | 66 | Channellock wire cutters |
| | 67 | Metric hex wrenches |
| 28 | 67a | 1.5 mm |
| 29 | 67b | 2 mm |
| 30 | 67c | 2.5 mm |
| 31 | 67d | 3 mm |
| 32 | 67e | 4 mm |
| 33 | 67f | 5 mm |
| 34 | 67g | 6 mm |
| 35 | 67h | 8 mm |
| 36 | 67i | 10 mm |
| 37 | 68 | 6" Socket extension |
| | 69 | Metric socket set with rack |
| 38 | 69a | 8 mm Socket |
| 39 | 69b | 9 mm Socket |
| 40 | 69c | 10 mm Socket |
| 41 | 69d | 11 mm Socket |
| 42 | 69e | 12 mm Socket |
| 43 | 69f | 13 mm Socket |
| 44 | 69g | 14 mm Socket |
| 45 | 69h | 15 mm Socket |
| 46 | 69i | 17 mm Socket |
| 47 | 69j | 19 mm Socket |
| 48 | 69k | Metric socket rack |

| Tool Count | Tool # | Tool Description |
|------------|--------|-------------------------------------|
| | 70 | Deep-well socket set w/rack |
| 49 | 70a | 5/16" DW socket |
| 50 | 70b | 3/8" DW socket |
| 51 | 70c | 7/16" DW socket |
| 52 | 70d | 1/2" DW socket |
| 53 | 70e | 9/16" DW socket |
| 54 | 70f | 5/8" DW socket |
| 55 | 70g | 1 1/16" DW socket |
| 56 | 70h | 3/4" DW socket |
| 57 | 70i | 13/16" DW socket |
| 58 | 70j | DW Socket rack |
| 59 | 71 | 10" Adjustable wrench |
| 60 | 72 | 12" aluminum pipe wrench |
| 61 | 73 | Channellock 12" groove joint pliers |
| 62 | 75 | 10" Locking pliers |
| 63 | 76 | 1" Wood chisel |
| 64 | 77 | 1 1/2" Hyde putty knife |
| 65 | 78 | 8" Hyde mud knife |
| 66 | 79 | 3" Hyde putty knife |
| 67 | 80 | 3/4" Concrete chisel |
| 68 | 71 | 3" Adhesive spreader |
| 69 | 82 | Large wire brush |
| 70 | 83 | 1 1/2" Cut paint brush |
| 71 | 84 | Cleaning brush |
| 72 | 85 | All purpose cutter |
| 73 | 86 | Cable cutter/pruner |

Detailed Part List-Left Module

| Part Count | Tool # | Tool Description |
|------------|--------|------------------|
| 1 | P88 | Touch up marker |
| 2 | P89 | Touch up stick |
| 3 | P77 | Pencil |
| 4 | P96 | Camera |
| 5 | P90 | Tool marker |
| 6 | P91 | Staples |
| 7 | P92 | Art brush 1/8" |



DETAILED TOOL LIST – RIGHT MODULE

| Tool Count | Tool # | Tool Description |
|------------|--------|-----------------------------------|
| 1 | 87 | Outlet tester |
| | 88 | Light socket to plug adapter |
| 2 | 88a | Light socket extension w 2 plugs |
| 3 | 88b | Single outlet lamp socket adapter |
| 4 | 88c | Grounding plug adapter |
| 5 | 89 | 3 to 1 multi plug |
| 6 | 90 | Work gloves |
| 7 | 91 | Siphon pump |
| 8 | 92 | Voltage tester |
| 9 | 93 | Continuity tester |
| 10 | 94 | HW tank element tool |
| 11 | 95 | Inwin quick clamp |
| 12 | 96 | Electronic multi meter |
| 13 | 98 | Center punch |
| 14 | 99 | 1/8" Pin punch |
| | 100 | Dewalt metal drill bit set |
| 15 | P66a | 1/16" |
| 16 | P66b | 5/64" |
| 17 | P66c | 3/32" |
| 18 | P66d | 7/64" |
| 19 | P66e | 1/8" |
| 20 | P66f | 9/64" |
| 21 | P66g | 5/32" |
| 22 | P66h | 1 1/64" |
| 23 | P66i | 3/16" |
| 24 | 100a | 13/64" (2) |
| 25 | 100b | 7/32" |
| 26 | 100c | 15/64" |
| 27 | 100d | 1/4" |
| 28 | 100e | 5/16" |
| 29 | 100f | 3/8" |
| 30 | 100g | 1/2" |
| | 101 | Driver bits box with bits |
| 31 | 101box | Driver bits box |
| 32 | 50a | PH1 |
| 33 | 50b | PV1 |
| 34 | 50c | PH2 |
| 35 | 50d | PV2 |
| 36 | 50e | V 3/16" |
| 37 | 50f | V 1/4 |
| 38 | 50g | T-10 |
| 39 | 50h | T-15 |
| 40 | 50i | T-20 |
| 41 | 50j | T-25 |

| Tool Count | Tool # | Tool Description |
|------------|--------|--------------------------------|
| 42 | 50k | 1/4 Socket |
| 43 | 50l | 5/16 Socket |
| 44 | 50m | 11/32 Socket |
| 45 | 50n | 3/8 Socket |
| 46 | 50o | 7/16 Socket |
| 47 | 50p | 1/2 Socket |
| 48 | 101a | #2 Phillips/P2SL8 |
| 49 | 101b | 2" Phillips #1 |
| 50 | 101c | 2" Phillips # 2 |
| 51 | 101d | 2" Phillips #3 |
| 52 | 101e | 2" Robertson S-1 |
| 53 | 101f | 2" Robertson S-2 |
| 54 | 101g | 2" Robertson S-3 |
| 55 | 124 | Assorted security bits* |
| 56 | 124a | Magnetic insertion bit holder* |
| 57 | 124b | Torq # 6* |
| 58 | 124c | Torq # 8* |
| 59 | 124d | Torq # 10* |
| 60 | 124e | Spanner # 4* |
| 61 | 124f | Spanner # 6* |
| 62 | 124g | Spanner # 8* |
| 63 | 124h | Spanner # 10* |
| 64 | 124i | Tri-wing #1* |
| 65 | 124j | Tri-wing #2* |
| 66 | 124k | Tri-wing # 3* |
| 67 | 124l | Tri-wing # 4* |
| 68 | 124m | Hex 2 mm* |
| 69 | 124n | Hex 2.5 mm* |
| 70 | 124o | Hex 3 mm* |
| 71 | 124p | Hex 4 mm* |
| 72 | 124q | Hex 5 mm* |
| 73 | 124r | Hex 6 mm* |
| 74 | 124s | Hex 5/32* |
| 75 | 124t | Hex 9/64* |
| 76 | 124u | Hex 1/8* |
| 77 | 124v | Hex 7/64* |
| 78 | 124w | Hex 3/32* |
| 79 | 124x | Hex 5/64* |
| 80 | 124y | Torx T-8H* |
| 81 | 124z | Torx T - 10H* |
| 82 | 124aa | Torx T - 15H* |
| 83 | 124bb | Torx T - 12H* |
| 84 | 124cc | Torx T - 25H* |
| 85 | 124dd | Torx T-27H* |

| Tool Count | Tool # | Tool Description |
|------------|-------------|----------------------------|
| 86 | 124ee* | Torx T - 30H |
| 87 | 124ff* | Torx T- 35H |
| 88 | 124gg* | Torx T- 40H |
| 89 | 102 | Metabo 18V hammer drill |
| 90 | 103 | 1/4 x 12 Metal drill bit |
| 91 | 104 | 1/2 x 12 Masonry drill bit |
| 92 | 105 | 1/2 x 16 Wood drill bit |
| 93 | 106 | 1" Hole saw |
| 94 | 107 | 2 1/8" Hole saw with arbor |
| | 108 | Wood drill bit set |
| 95 | 108 roll up | wood drill bit roll up |
| 96 | 108a | 3/8" |
| 97 | 108b | 7/16" |
| 98 | 108c | 1/2" |
| 99 | 108d | 9/16" |
| 100 | 108e | 5/8" |
| 101 | 108f | 1 1/16" |
| 102 | 108g | 3/4" |
| 103 | 108h | 13/16" |
| 104 | 108i | 7/8" |
| 105 | 108j | 1" |
| 106 | 108k | 1 1/8" |
| 107 | 108l | 1 1/4" |
| 108 | 109 | Large level |
| 109 | 110 | Large pry bar |
| 110 | 111 | Chalk line |
| 111 | 112 | Stud finder |
| | 113 | Masonry drill bit set |
| 112 | 113a | 1/8" (3) |
| 113 | 113b | 5/32" (2) |
| 114 | 113c | 3/16" (3) |
| 115 | 113d | 1/4" (3) |
| 116 | 113e | 5/16" |
| 117 | 113f | 3/8" |
| 118 | 113g | 1/2" |
| 119 | 114 | LED Headbank flashlight |
| 120 | 115 | Screen tool |
| 121 | 116 | 15" wood saw |
| 122 | 117 | 12" hacksaw |
| 123 | 118 | Paint mixer |
| 124 | 119 | Flex saw |
| 125 | 120 | 6" Coping saw |
| 126 | 121 | Dust pan |



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* Bits 124-124gg found in driver bits box #101

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DETAILED PARTS LIST

Detailed List-Fasteners Box

| Tool Count | Tool # | Tool Description |
|------------|--------|--|
| 1 | P18 | 3/16" x 1 Bolt |
| 2 | P19 | 3/16" x 2" Bolt |
| 3 | P22 | 3/16" Nut |
| 4 | P27 | 1/4" x 1 Fender washer |
| 5 | P28 | 3/16" x 1 1/4" Fender washer |
| 6 | P8 | 32 x 1 1/4" Knob screw |
| 7 | P9 | 32 x 2" Knob screw |
| 8 | P10 | #10 x 3/4" Pan head SM screw |
| 9 | P13 | #8 x 3/4", Truss hd screw |
| 10 | P16 | 1/4" x 1" Bolt |
| 11 | P174 | 1/4" x 2" Bolt |
| 12 | P20 | 1/4" Nut |
| 13 | P14 | #8 x 1/2" Self-drilling truss head screw |
| 14 | P15 | #8 x 3/4" Self drilling truss head screw |
| 15 | P108 | #8 x 5/8" Self drill truss hd screw |
| 16 | P109 | #8 x 1- 5/8" Self drill, truss hd screw |
| 17 | P100 | 1" Exterior screw |

| Tool Count | Tool # | Tool Description |
|------------|--------|--------------------------------------|
| 18 | P102 | 1 5/8" Exterior screw |
| 19 | P104 | 2 1/2" Exterior screw |
| 20 | P106 | 3 1/2" Exterior screw |
| 21 | P6 | 1/4" x 2 1/4" Concrete screw |
| 22 | P7 | 1/4" - 2 3/4" Concrete |
| 23 | P4 | 1/4" - 1 1/4" Concrete |
| 24 | P5 | 1/4" x 1 3/4" Concrete screw |
| 25 | P11 | 1/2" Eye screw |
| 26 | P12 | #8 Truss head |
| 27 | P1 | 1 1/2" Corner brace |
| 28 | P2 | 2 1/2" Flat corner brace |
| 29 | P3 | 3" Flat mndg plate |
| 30 | P101 | 1 1/4" Exterior screw |
| 31 | P103 | 2" Exterior screw |
| 32 | P105 | 3" Exterior screw |
| 33 | P107 | 4" Exterior screw |
| 34 | P110 | #8 Screw-in drywall anchors w/ screw |

Detailed List-Miscellaneous Box

| Tool Count | Tool # | Tool Description |
|------------|--------|-------------------------|
| 35 | P149 | Dust mask |
| 36 | P148 | Shoe covers |
| 37 | P142 | Hangar strap |
| 38 | P145 | Galvanized bailing wire |
| 39 | P150 | Sanding sponge - coarse |
| 40 | P151 | Sanding sponge -fine |
| 41 | P146 | Masons string |
| 42 | P152 | Polyurethane wood glue |
| 43 | P153 | Cutting oil |
| 44 | P158 | Epoxy putty |
| 45 | P159 | Cable ties |
| 46 | P62 | Super glue |
| 47 | P157 | Wallpaper seam glue |
| 48 | P164 | Trash bags |
| 49 | P63 | Thread locker |
| 50 | P147 | Rubber gloves |
| 51 | P160 | Plastic shim |
| 52 | P155 | Popsicle stick |
| 53 | P156 | Glue mixing cup |
| 54 | P162 | Spackling, small tube |
| 55 | P154 | Epoxy glue |
| 56 | P161 | Mesh drywall tape |
| 57 | P163 | Goof off |

Detailed List-Plumbing and Electrical Box

| Part Count | Part # | Tool Description |
|------------|--------|--------------------------|
| 1 | P60 | Flux brush |
| 2 | P129 | Solder |
| 3 | P130 | Flux |
| 4 | P97 | Blue Painters Tape |
| 5 | P136 | Pipe joint compound |
| 6 | P58 | Dual thread aerator |
| 7 | P59 | Hose washer |
| 8 | P57 | 1 1/2" tail piece |
| 9 | P139 | Plumbers grease |
| 10 | P174 | Plumbers putty |
| 11 | P133 | Water stop for soldering |
| 12 | P137 | Steel wool |

| Part Count | Part # | Tool Description |
|------------|--------|-----------------------------------|
| 13 | P138 | Plumbers sand cloth |
| 14 | P135 | All purpose plastic pipe cement |
| 15 | P119 | Cable staple |
| 16 | P37 | Ex small wire nut - grey |
| 17 | P121 | Medium wire nuts, yellow |
| 18 | P71 | AA batteries |
| 19 | P74 | 9 Volt batteries |
| 20 | P75 | AAA batteries |
| 21 | P143 | 1 1/4" Slip joint nut |
| 22 | P144 | 1 1/2" Slip joint nut |
| 23 | P54 | 1 1/4" Slip joint washer |
| 24 | P55 | 1 1/2" - 1 1/4" Slip joint washer |

| Part Count | Part # | Tool Description |
|------------|--------|---------------------------|
| 25 | P140 | Toilet tissue roller |
| 26 | P134 | Teflon tape |
| 27 | P123 | 3/4" Wire connector |
| 28 | P124 | 3/4" Wire connector |
| 29 | P120 | Pull switch |
| 30 | P118 | 1/2" Wire staples |
| 31 | P38 | Small wire nut - orange |
| 32 | P122 | Large wire nut- red |
| 33 | P125 | Elec. Connection grease |
| 34 | P126 | 12 ga. Wire - red (feet) |
| 35 | P114 | 10d Finish nail |

Detailed List-Small Parts Box

| Part Count | Tool # | Tool Description |
|------------|--------|------------------------------------|
| 1 | P92 | Art brush 3/8" Detailed Parts List |
| 2 | P21 | 1/4" Locknut |
| 3 | P23 | 3/16" Locknut |
| 4 | P24 | # 10 Flat washer |
| 5 | P25 | 1/4" Flat washer |
| 6 | P26 | 5/16" Flat washer |
| 7 | P29 | 4d Finish nail |
| 8 | P31 | Carpet strip nails |
| 9 | P32 | 5/16" Flat washer |

| Part Count | Tool # | Tool Description |
|------------|--------|---------------------------------|
| 10 | P33 | Push pins |
| 11 | P34 | 1/16" x 1 Cotter pin |
| 12 | P35 | 3/32" x 1 1/4" Cotter pin |
| 13 | P39a | Wallplate screws, white |
| 14 | P39b | Wallplate screws, ivory |
| 15 | P40 | Plug/ switch mounting screw |
| 16 | P41 | Light globe screw |
| 17 | P42 | Light glass nut |
| 18 | P45 | Light pull chain(3ft. Lengths) |

| Part Count | Tool # | Tool Description |
|------------|--------|----------------------------------|
| 19 | P46 | Pull chain connector |
| 20 | P47 | 1/4" Female disconnect |
| 21 | P48 | Spade terminal |
| 22 | P49 | 1/4" female- dbl male disconnect |
| 23 | P50 | RG6 screw on terminal |
| 24 | P51 | Double male coax connector |
| 25 | P43 | 1 1/2" Light nipple |
| 26 | P44 | Light nipple lock nut |



MATERIAL SAFETY DATA SHEET

DATE: 02/18/05

Revision #6 Page 1 of 2

Section 1**HAZARD RATING**

For Chemical Emergency Only:

PACER TECHNOLOGY

In the US & Canada (800) 424-9300

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2

Int'l & Wash DC (COLLECT) (703) 527-3887

Rancho Cucamonga, CA 91730

1 x 1

Telephone for Information: (909) 987-0550

PRODUCT IDENTIFICATION: Future Glue Gel**Section 2 - HAZARDOUS INGREDIENTS INFORMATION:**

| Hazardous Components (Common Names, CAS Number) | OSHA PEL | ACGIH TLV | OTHER LIMITS | % OPTION |
|--|-------------|--------------|-----------------|-------------|
| Ethyl-2-Cyanoacrylate (7085-85-0) | NE | NE | 0.2ppm TWA | 60-100 |
| Poly (Methyl Methacrylate) (9011-14-7) | NE | NE | | 10-30 |
| Hydroquinone* (123-31-9) | 2mg/m3 | 2mg/m3 | | 0-1 |

*This ingredient is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments & Reauthorization Act of 1986 (SARA) and 40 CFR 372.

Section 3 - PHYSICAL/CHEMICAL CHARACTERISTICS:

| | | | |
|---|----------|--|--------|
| Boiling Point: | 365 F | Specific Gravity (H ₂ O=1): | 1.05 |
| Vapor Density (Air=1): | nil-NE | Melting Point: | NE |
| Vapor Pressure (mm Hg): | 1 @ 20 C | Evaporation Rate (Butyl acetate=1): | nil-NE |
| Solubility in Water: Insoluble, material reacts to hardened mass for non-hazardous waste. | | | |
| Appearance & Odor: Transparent water-white to straw colored liquid with stimulative odor. | | | |

Section 4 - FIRE AND EXPLOSION HAZARD DATA:Flash Point (Method Used): 185 F (TCC)

Flammable Limits: LEL: NE UEL: NE

Extinguishing Media: Flush with large amounts of water or dry chemical extinguisher.Special Fire Fighting Procedures: Fumes may be irritating if not burning and require air supply with goggles while applying large amounts of water or dry chemical extinguisher.Unusual Fire and Explosion Hazards: None. Combustible requiring the above procedures.**Section 5 - REACTIVITY DATA:**Stability: Stable XX Conditions to Avoid: Excessive heat above 176 F, moisture and alkalines. Stable up to 122 F. Store in a cool dry place.Incompatibility (Materials to Avoid): Polymerized by water, alcohol, amines, alkaline materials and direct UV.Hazardous Decomposition Products: Combustible by-products of carbon monoxide/dioxide.Hazardous Polymerization: May Not Occur XX**Section 6 - HEALTH HAZARD DATA:**Route(s) of Entry: Inhalation: Yes Skin: NO

Ingestion: LD50 = 12.2cc/kg

Health Hazards (Acute and Chronic):

(mice)

Acute - Irritates eyes, mucous membranes.

Chronic - No residual effects of acute properties.

Carcinogenicity: NTP: No IARC Monographs: No OSHA Regulated: No

First Aid Procedures:

Eye contact - Tearing from eye irritation. Remove to fresh air. Flush areas of contact with water. Adhesive will disassociate from eye/eyelids over time, usually within several hours. Temporary weeping of eyes/double vision may be experienced until clearance is achieved.

Skin contact - Immerse bonded areas in warm, soapy water. Peel or roll skin apart. Remove cured adhesive with several applications of warm, soapy water. Prolonged or repeated contact at elevated levels may cause dermatitis in sensitive individuals.

Inhalation - Irritation of mucous membranes/coughing. Remove to fresh air. Prolonged or repeated exposure at elevated levels may produce allergic reactions with asthma-like symptoms in sensitive individuals.

Ingestion - Lips may become stuck together: apply copious amounts of warm water & encourage wetting/pressure from saliva inside mouth. Peel or roll (do not pull) lips apart. It is almost impossible to swallow cyanoacrylate as adhesive solidifies upon contact with saliva & may adhere to inside of mouth. Saliva will lift adhesive in 1-2 days, avoid swallowing adhesive after detachment.

Medical Conditions Generally Aggravated by Exposure: Pre-existing skin, eye and respiratory disorders may be aggravated by exposure.

Section 7 - PRECAUTIONS FOR SAFE HANDLING AND USE:

Steps to Be Taken in Case Material is Released or Spilled: Polymerize with water. Solid material may be scraped from surface.

Waste Disposal Method: Incinerate solid combustible waste or dump as chemical waste according to local, state and federal regulations.

Precautions to Be Taken in Handling and Storing: Avoid contact with clothing as contact can cause burn. Avoid moisture, direct UV-sunlight and do not store above 25 C. Keep containers closed tightly when not in use. Ideal storage: 5-10 C.

Other Precautions: Avoid breathing vapor, contact with eyes/skin. Allow product to reach room temperature before use.

Section 8 - CONTROL MEASURES:

Respiratory Protection (Specify Type): A NIOSH-approved organic vapor canister may be used to maintain vapor concentration below TLV.

Ventilation: Local Exhaust: To maintain vapor concentration below TLV.

Mechanical (General): Large amounts used to 0.2ppm.

Protective Clothing or Equipment: Safety glasses with side shield, Vinyl (polyethylene) non-sticking gloves, rubber apron to protect clothing.

Work/Hygienic Practices: Soap and water helps remove adhesive from skin.

NE = Not established

The data contained herein is based upon information that Pacer Technology believes to be reliable. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Section 1

Pacer Technology
 9420 Santa Anita Avenue
 Rancho Cucamonga, CA 91730

For Chemical Emergency Only

In the US & Canada (800) 424-9300
 Int'l & Wash DC (COLLECT) (703) 527-3887
 Telephone for Information (909) 987-0550

I. PRODUCT IDENTIFICATION: PRO LOK™ Removable Thread Lock **HAZARD RATING (HMIS)**

Health = 2 Equip.
 Flammability = 1 safety glasses
 Reactivity = 1 gloves

II. COMPOSITION

| INGREDIENTS | CONCENTRATION% | C.A.S.# | ACGIH TLV |
|---------------------------|----------------|-------------|-----------|
| Polyglycol Dimethacrylate | 60-70 | Proprietary | --- |
| Polyglycol Oleate | 20-25 | Proprietary | --- |
| Poly(Tetrafluoroethylene) | 5-10 | 9002-84-0 | --- |
| Modified Silicon Dioxide | 3-5 | 112945-52-5 | --- |
| Saccharin | 0.1-1.0 | 81-07-2 | --- |
| Organic Peroxide* | 1-3 | 80-15-9 | --- |
| Maleic Acid | 0.1-1.0 | 110-16-7 | --- |
| N,N,Dialkyltoluidine | 0.2-0.6 | 99-97-8 | Not est. |
| Titanium Dioxide | 0.1-0.5 | 13463-67-7 | --- |

*SARA Section 313 Toxic Chemical

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure: >0.1mmHg @ 25C Vapor Density: Heavier than Air
 Solubility in water: N/A Specific Gravity: 1.08
 Boiling point: >300F Appearance: blue
 Odor: mild pH: N/A

IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flashpoint (T.C.C.): >200F
 Recommended Extinguishing Agents: Water, foam, dry chemical or CO₂
 Hazardous Products Formed by Fire or Thermal Decomposition: Toxic fumes of carbon oxides may evolve upon exposure to heat or open flame.
 Unusual Fire or Explosive Hazards: none
 Compressed gases: none Solvents: none Pressure at 23C: N/A

V. REACTIVITY DATA

Stability: Stable Hazardous Polymerization: Will not occur
 Hazardous Decomposition Products: None known
 Incompatibility: Active metal ions, heat

VI. SPILL OR LEAK PROCEDURES

Dike area to prevent spreading. Absorb on vermiculite, sand or other inert absorbing material. Dispose of as a chemical waste in accordance with current local, state, and federal regulations.

VII. STORAGE AND HANDLING PROCEDURES

Avoid exposure to light, heat, loss of dissolved air, contamination with incompatible materials such as copper or iron dust or material.
 Handling: none

VIII. SHIPPING REGULATIONS

DOT and IATA Hazard Classification: Unrestricted Articles

Proper DOT Shipping Name: N/A

IX. EMERGENCY TREATMENT

Eye Irritation: Immediately flush eyes with water for at least 15 minutes. Get medical attention.

Skin Contact: Wash thoroughly with soap and water. Do not use organic solvents on skin.

Inhalation: does not apply

Ingestion: Get medical attention, low toxicity

X. PERSONAL PROTECTION

Respiratory: not normally necessary

Skin: Avoid skin contact, wear gloves and protective clothing if in direct contact with material.

Disposable polyethylene gloves with vinyl latex overgloves will give protection.

Eyes: Wear safety goggles or side shield safety glasses.

XI. HEALTH HAZARD DATA

Hazard Categories: immediate X Delayed X fire pressure reactivity

Potential Routes of Entry: skin X inhalation ingestion X

Symptoms of Overexposure: Possible skin and eye irritation on contact is likely.

Sara Listed Ingredients: Organic Peroxide

XII. PREPARATION INFORMATION

Original Issue Date: 3/26/96 Revision #4: 02/18/05

Current Revision 5: 08/2906

PREPARED BY: Mary K. Robles

NA = not applicable

The data contained herein is based upon information that Pacer Technology believes to be reliable. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.



WD-40®



MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

| | | | |
|---------------|--|-----------------|-----------------------------|
| Manufacturer: | WD-40 Company | Telephone: | |
| Address: | 1061 Cudahy Place (92110) P.O. Box 80607 San Diego, California 92138-0607 | Emergency only: | 1-(800) 424-9300 (CHEMTREC) |
| | | Information: | (619) 275-1400 |
| | | Chemical Name: | Organic Mixture |
| | | Trade Name: | WD-40 Aerosol |

II. HAZARDOUS INGREDIENTS

| Chemical Name | CAS Number | % | Exposure Limit ACGIH/OSHA |
|---------------------------------|------------|-------|--------------------------------|
| Aliphatic Petroleum Distillates | 8052-41-3 | 45-50 | 100 ppm PEL |
| Petroleum Base Oil | 64742-65-0 | 15-25 | 5 mg/M ³ TWA (mist) |
| LVP Hydrocarbon Fluid | 64742-47-8 | 12-18 | 1200 mg/M ³ TWA |
| Carbon Dioxide | 124-38-9 | 2-3 | 5000 ppm PEL |
| Non-hazardous Ingredients | | < 10 | |

III. PHYSICAL DATA

| | | | |
|--|-----------------|-------------------|-------------------------|
| Boiling Point: | 323°F (minimum) | Evaporation Rate: | Not determined |
| Vapor Density (air=1): | Greater than 1 | Vapor Pressure: | 110 ±5 PSI @ 70°F |
| Solubility in Water: | insoluble | Appearance: | Light amber |
| Specific Gravity (H ₂ O=1): | 0.817 @ 72°F | Odor: | Characteristic odor |
| Percent Volatile (volume): | 74% | VOC: | 412 grams/liter (49.5%) |

IV. FIRE AND EXPLOSION

| | |
|-------------------------------------|---|
| Flash Point: | 131°F Tag Closed Cup |
| Flammable Limits: | (Solvent Portion) [LeI] 1.0% [UeI] 6.0% |
| Extinguishing Media: | CO ₂ , Dry Chemical, Foam. |
| Special Fire Fighting Procedures: | Contents Under Pressure |
| Unusual Fire and Explosion Hazards: | FLAMMABLE - U.F.C. level 3 AEROSOL |

V. HEALTH HAZARD / ROUTE(S) OF ENTRY

| | |
|---------------------------------------|--|
| Threshold Limit Value | Aliphatic Petroleum Distillates (Stoddard Solvent) lowest TLV (ACGIH 100 ppm.) |
| Symptoms of Overexposure | |
| Inhalation (Breathing): | May cause anesthesia, headache, dizziness, nausea and upper respiratory irritation. |
| Skin contact: | May cause drying of skin and/or irritation. |
| Eye contact: | May cause irritation, tearing and redness. |
| Ingestion (Swallowed): | May caused irritation, nausea, vomiting and diarrhea. |
| First Aid Emergency Procedures | |
| Ingestion (Swallowed): | Do not induce vomiting, seek medical attention. |
| Eye Contact: | Immediately flush eyes with large amounts of water for 15 minutes. |
| Skin Contact: | Wash with soap and water. |
| Inhalation (Breathing): | Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. |
| | Pre-existing medical conditions such as eye, skin and respiratory disorders may be aggravated by exposure. |
| DANGER! | |
| Aspiration Hazard: | If swallowed, can enter lungs and may cause chemical pneumonitis. Do not induce vomiting. Call Physician immediately. |
| Suspected Cancer Agent | The components in this mixture have been found to be noncarcinogenic by NTP, IARC and OSHA |
| Yes___ No <u>X</u> | |

VI. REACTIVITY DATA

| | | |
|-----------------------------------|--|-------------------------|
| Stability: | Stable <u>X</u> | Unstable _____ |
| Conditions to avoid: | NA | |
| Incompatibility: | Strong oxidizing agents | |
| Hazardous decomposition products: | Thermal decomposition may yield carbon monoxide and/or carbon dioxide. | |
| Hazardous polymerization: | May occur _____ | Will not occur <u>X</u> |

VII. SPILL OR LEAK PROCEDURES

Spill Response Procedures

Spill unlikely from aerosol cans. Leaking cans should be placed in plastic bag or open pail until pressure has dissipated.

Waste Disposal Method

Empty aerosol cans should not be punctured or incinerated; bury in land fill. Liquid should be incinerated or buried in land fill. Dispose of in accordance with local, state and federal regulations.

VIII. SPECIAL HANDLING INFORMATION

| | |
|-----------------------------|--|
| Ventilation: | Sufficient to keep solvent vapor less than TLV. |
| Respiratory Protection: | Advised when concentrations exceed TLV. |
| Protective Gloves: | Advised to prevent possible skin irritation. |
| Eye Protection: | Approved eye protections to safeguard against potential eye contact, irritation or injury. |
| Other Protective Equipment: | None required. |

IX. SPECIAL PRECAUTIONS

Keep from sources of ignition. Avoid excessive inhalation of spray particles, do not take internally. Do not puncture, incinerate or store container above 120°F. Exposure to heat may cause bursting. Keep can away from electrical current or battery terminals. Electrical arcing can cause burn-through (puncture) which may result in flash fire, causing serious injury. Keep from children.

X. TRANSPORTATION DATA (49 CFR 172.101)

Domestic Surface

| | |
|-----------------|----------------------------|
| Description: | Consumer Commodity |
| Hazard Class: | ORM-D |
| ID No: | None |
| Label Required: | Consumer commodity (ORM-D) |

XI. REGULATORY INFORMATION

All ingredients for this product are listed on the TSCA inventory.

| | |
|-------------------------------|------------------|
| SARA Title III chemicals: | None |
| California Prop 65 chemicals: | None |
| CERCLA reportable quantity: | None |
| RCRA hazardous waste no: | D001 (Ignitable) |

SIGNATURE: Peter Fougner  TITLE: _____ Director of Global Quality Assurance _____

REVISION DATE: _____ December, 2004 _____ SUPERSEDES: _____ November, 2003 _____

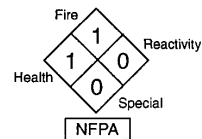
NA: Not applicable NDA: No data available

‘ = Less than ’ = More than

We believe the statements, technical information and recommendations contained herein are reliable. However, the data is provided without warranty, expressed or implied. It is the user's responsibility both to determine safe conditions for use of this product and assume loss, damage or expense, direct or consequential, arising from its use. Before using product, read label.



3-IN-ONE®



I. PRODUCT IDENTIFICATION

| | | | |
|---------------|--|-----------------|---------------------------------------|
| Manufacturer: | WD-40 Company | Telephone: | |
| Address: | 1681 Cudahy Place (92110) P.O. Box 80607 San Diego, California 92138-0607 | Emergency only: | 1-800-424-9300 (Chemtrec) |
| | | Information: | (619) 275-1400 |
| | | Chemical Name: | Organic Mixture |
| | | Trade Name: | Three-In-One Multi-Purpose Oil |

II. HAZARDOUS INGREDIENTS

| Chemical Name | CAS Number | % | Exposure Limit ACGIH/OSHA |
|---|------------|-----|-------------------------------|
| Severely Hydrotreated Heavy Naphthenic Oil | 64742-52-5 | >97 | 5mg/M ³ TWA (mist) |
| Non-hazardous Ingredients | | <3 | |

III. PHYSICAL DATA

| | | | |
|----------------------|--------------------|--------------------------|----------------------|
| Appearance: | Clear amber liquid | Volatiles: | Nil |
| Odor: | Faint citronella | pH: | Not applicable |
| Boiling Point: | Above 550°F | Specific Gravity: | 0.866 - 0.923 @ 20°C |
| Freezing Point: | Not applicable | Vapor Pressure: | Not determined |
| Solubility in Water: | Insoluble | Vapor Density (Air = 1): | Not determined |

IV. FIRE AND EXPLOSION

| | |
|---------------------------|---|
| Flash Point: | Above 305°F TOC |
| Flame Extension: | Not applicable |
| Extinguishing Media: | CO ₂ , Dry Chemical, Foam, Water Spray |
| Fire Fighting Procedures: | Use water to keep fire-exposed containers cool. |

V. HEALTH HAZARD / ROUTE(S) OF ENTRY

Symptoms of Overexposure

Inhalation (Breathing): May cause anesthesia, headache, dizziness, nausea and upper respiratory irritation.

Skin Contact: May cause drying of skin and/or irritation.

Eye Contact: May cause irritation, tearing and redness.

Ingestion (Swallowed): May cause irritation, nausea, vomiting and diarrhea.

First Aid Procedures:

Ingestion (Swallowed): Do not induce vomiting. Seek medical attention.

Eye Contact: Immediately flush eyes with large amounts of water for 15 minutes.

Skin Contact: Wash with soap and water.

Inhalation (Breathing): Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

DANGER!

Aspiration Hazard: If swallowed, can enter lungs and may cause chemical pneumonitis. Do not induce vomiting. Call Physician immediately.

Suspected Cancer Agent

Yes _____ No X The components in this mixture have been found to be noncarcinogenic by NTP, IARC and OSHA.

VI. REACTIVITY DATA

| | | |
|-----------------------------------|--|-------------------------|
| Stability: | Stable <u>X</u> | Unstable _____ |
| Conditions to avoid: | NA | |
| Incompatibility: | Strong oxidizing materials | |
| Hazardous decomposition products: | Thermal decomposition may yield carbon monoxide and/or carbon dioxide. | |
| Hazardous polymerization: | May occur _____ | Will not occur <u>X</u> |

VII. SPILL OR LEAK PROCEDURES

Spill Response Procedures

Absorb small quantities with sand, earth, sawdust. Large quantities pump into tank.

Waste Disposal Method

Incinerate liquid, bury saturated absorbent in land fill. Dispose of in accordance with local, state and federal regulations.

VIII. SPECIAL HANDLING INFORMATION

| | |
|---------------------------|--|
| Ventilation Requirements: | Use local exhaust to capture vapor, mists or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or build-up of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources. |
| Respiratory Protection: | Use air respiratory protection in confined or enclosed spaces, if needed. |
| Protective Gloves: | Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact. |
| Eye Protection: | Use splash goggles or face shield when eye contact may occur. |

IX. SPECIAL PRECAUTIONS

Keep from open flame. Do not take internally. Avoid excessive inhalation of vapors. Keep from children.

X. REGULATORY INFORMATION

All ingredients for this product are listed on the TSCA Inventory.

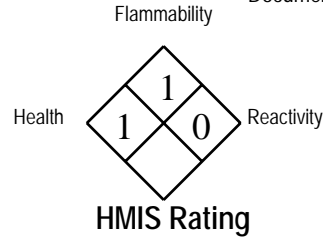
| | |
|-------------------------------|------|
| SARA Title III chemicals: | None |
| California Prop 65 chemicals: | None |
| CERCLA reportable quantity: | None |
| RCRA hazardous waste no.: | None |

SIGNATURE: Peter Fougner  TITLE: Director of Global Quality Assurance

REVISION DATE: January 2005 SUPERSEDES: June 2003

NA = Not applicable NDA = No data available < = Less than > = More than

We believe the statements, technical information and recommendations contained herein are reliable. However, the data is provided without warranty, expressed or implied. It is the user's responsibility both to determine safe conditions for use of this product and assume loss, damage or expense, direct or consequential, arising from its use. Before using product, read label.



MATERIAL SAFETY DATA SHEET

GENERAL INFORMATION

| | | |
|--|------------------------|--|
| PRODUCT NAME OR NUMBER (as it appears on label) Noalox® Anti-Oxidant | | CATALOG NUMBER All "30" Series |
| MANUFACTURER'S NAME IDEAL INDUSTRIES, INC. | | EMERGENCY TELEPHONE NO. (815) 895-5181 |
| ADDRESS (Number, Street, City, State, Zip Code) Becker Place, Sycamore, IL 60178 | | |
| HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZARD CLASS, HAZARD CLASS NO., HAZARD ID NO. (49 CFR 172.101) None | | |
| CHEMICAL DESCRIPTION Petroleum-Based Mixture | FORMULA Proprietary | |

SECTION I - INGREDIENTS

| CAS REGISTRY NO. | %W | CHEMICAL NAME(S)* | Listed as a carcinogen in NTP, IARC or OSHA 1910(z) (specify) |
|------------------|-----|-------------------|---|
| 9003-29-6 | <80 | Polybutene | No |
| 7440-66-6 | 20 | Zinc Dust | No |
| 7631-86-9 | <5 | Silicon Dioxide | No |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

SECTION II - PHYSICAL DATA

| | | |
|--|---|---------------------------------------|
| BOILING POINT >500 °F °C | SPECIFIC GRAVITY (H ₂ O=1) 1.04 | PERCENT VOLATILE BY VOLUME (%) N F |
| SOLUBILITY IN WATER Moderate | pH = 6.5 - 8.0 | PERCENT SOLID BY WEIGHT (%) 100 |
| APPEARANCE AND ODOR Gray solid paste. mild odor | IS MATERIAL: LIQUID SOLID GEL GAS <u>PASTE</u> | |

SECTION III - FIRE AND EXPLOSION HAZARD DATA

| | | | | |
|---|----------------------|------------------|-------------|-------------|
| FLASH POINT 310 F | method used C.O.C | FLAMMABLE LIMITS | LEL N.E. | UEL N.E. |
| EXTINGUISHING MEDIA Use dry chemical carbon dioxide or foam | | | | |
| SPECIAL FIRE FIGHTING PROCEDURES Self-contained respiratory protection should be provided for fire fighters. Keep fire exposed containers cool with water. | | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS Water or foam may cause a frothing reaction. (Water reacts with zinc dust) | | | | |

* None of the chemical raw materials contained in this formulation are considered hazardous under the Federal Hazards Communication Standard 29 C. F. R 1910.1200

SECTION IV - HEALTH HAZARD INFORMATION

| | |
|--|--|
| EFFECTS OF OVEREXPOSURE - Conditions to Avoid | |
| None normally expected. Upon prolonged contact, may cause temporary eye discomfort. | |
| THRESHOLD LIMIT VALUE | |
| Zinc dust or silicon dioxide as dust: 10mg/m | |
| PRIMARY ROUTES OF ENTRY Inhalation <input type="checkbox"/> Skin Contact <input checked="" type="checkbox"/> Other (specify) | |
| EMERGENCY FIRST AID PROCEDURES | |
| SKIN CONTACT: | Wash with soap and water for 15 minutes |
| EYE CONTACT: | Flush with water for 15 minutes |
| INGESTION: | Induce vomiting and consult physician or local poison control center |

SECTION V - REACTIVITY DATA

| | | | |
|---|----------------|---|---|
| STABILITY | UNSTABLE | | CONDITIONS TO AVOID Avoid conditions of moisture or high humidity. |
| | STABLE | X | |
| INCOMPATIBILITY (materials to avoid) | | | |
| Avoid strong oxidizers, strong acids and water | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS: | | | |
| Excessive heat and burning may release oxides of carbon | | | |
| HAZARDOUS POLYMERIZATION | MAY OCCUR | | CONDITIONS TO AVOID None |
| | WILL NOT OCCUR | X | |

SECTION VI - SPILL AND LEAK PROCEDURES

| | |
|---|-----|
| STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED | |
| Wipe up, shovel or vacuum spilled material. Clean up spills immediately. Use absorbent media. | |
| WASTE DISPOSAL METHOD | |
| Comply with Federal, state and local regulations for solid landfill | |
| CERCLA (Superfund) REPORTABLE QUANTITY (in lbs) | |
| None Required | |
| RCRA HAZARDOUS WASTE NO. (40CFR 261.33) | |
| None Required | |
| VOLATILE ORGANIC COMPOUND (VOC) (as packaged, minus water) | |
| 120 ml calculated | |
| ³ Theoretical _____ lb/gal | N/A |
| ³ Analytical _____ lb/gal | N/A |


SECTION VII - PERSONAL PROTECTION INFORMATION

| | | | |
|--|-------------------------------------|----------------------------------|--------------|
| RESPIRATORY PROTECTION (specify type) | | | |
| If TLV exceeded, use NIOSH respirator | | | |
| VENTILATION | LOCAL EXHAUST (Specify Rate) | Necessary above TLV | SPECIAL None |
| | MECHANICAL (General) (Specify Rate) | | OTHER None |
| <small>Recommended in closed areas</small> | | | |
| PROTECTIVE GLOVES (specify type) | | EYE PROTECTION (specify type) | |
| None normally needed - Neoprene if necessary | | Safety glasses or splash goggles | |
| OTHER PROTECTIVE EQUIPMENT | | | |
| Eye fountain in work area is recommended | | | |

SECTION VIII - SPECIAL PRECAUTIONS

| | |
|--|--|
| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING | |
| Store in dry conditions at temperatures between 40 - 120 F | |
| OTHER PRECAUTIONS | |
| Keep away from children, infants and pets | |

SECTION IX - ADDITIONAL INFORMATION

| | |
|---|--|
| This product contains the following materials that are subject to the reporting requirements of Section 313 of EPCRA: | |
| CAS # 7440-66-6, Zinc Dust, 20% | |
| N/A = Not Applicable, N.E. = None Established | |
| THIS MATERIAL SAFETY DATA SHEET PREPARED BY: | |
| NAME | SIGNATURE |
| James R. MacMurdo |  |
| TITLE | |
| DATE | |
| Director, Corporate Quality Assurance | |
| 03/10/2006 | |

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION
Trade Name: OATEY SILVER LEAD-FREE PLUMBING SOLDER
Product Use: Solder for copper water lines
Formula: See Section 2
Synonyms: Solder
Firm Name & Mailing Address: OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135, U.S.A. <http://www.oatey.com>
Oatey Phone Number: (216) 267-7100 or (800) 321-9532
Emergency Phone Numbers: For Emergency First Aid call 1-303-623-5716 COLLECT. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1-703-527-3887.
Prepared By: Corporate Director - Safety and Environmental Compliance
Preparation Date: July 15, 2005

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

| <u>INGREDIENTS:</u> | <u>% wt/wt:</u> | <u>CAS NUMBER:</u> | <u>ACGIH TLV TWA:</u> | <u>OSHA PEL TWA:</u> |
|---------------------|-----------------|--------------------|-----------------------------------|-----------------------------------|
| Tin | 60 - 100% | 7440-31-5 | 2 mg/m3 | 2 mg/m3 |
| Copper | 1 - 5% | 7440-50-8 | 0.2 mg/m3(fume) 1 mg/m3 (dust) | 0.1 mg/m3(fume) 1 mg/m3 (dust) |
| Bismuth | 1 - 5% | 7440-69-9 | None | None |
| Silver | 1 - 5% | 7440-22-4 | 0.1 mg/m3 | 0.01 mg/m3 |

SECTION 3 HAZARDS IDENTIFICATION
Emergency Overview:
Silver-gray wire metal. The fumes may be hazardous during soldering operations. Fumes can cause eye irritation and may cause headache and respiratory system irritation. Ingestion of metal alloys may be harmful.

OSHA Hazard Classification: Not hazardous as is. In use, irritant and organ effects.

SECTION 4 FIRST AID MEASURES
CALL 1-303-623-5716 COLLECT

Skin: If irritation arises, wash thoroughly with soap and water. Seek medical attention if irritation persists.

Eyes: If material gets into eyes, immediately flush eyes with water while holding eyelids open until material is removed. If irritation persists, seek medical attention.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Call a poison control center or physician immediately.

Ingestion: **DO NOT INDUCE VOMITING.** Ingestion is not a likely route of entry. Never give anything by mouth to a person who is unconscious or drowsy. Get medical attention by calling a Poison Control Center, or hospital emergency room.

SECTION 5 FIRE FIGHTING MEASURES

Flashpoint / Method: Not applicable
Flammability: LEL = Not applicable, UEL = Not applicable
Extinguishing: Not applicable
Media:
Special Fire Fighting: Not applicable
Procedure:
Unusual Fire and Explosion: None known
Hazards:
Hazardous Decomposition Products: Material will not decompose under normal conditions. If overheated, oxides of tin, bismuth, copper and silver may result.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Collect solid and place in properly labeled containers.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid inhalation of fumes and vapors. Keep away from children. Wash thoroughly after handling before eating, drinking, or smoking.
Storage: Store in a cool, dry place away from heat or open flame.
Other: None.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Good general ventilation (equivalent to outdoors) should be adequate for normal use. For operations where the TLV may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits.
Respiratory Protection: For operations where the TLV may be exceeded, a NIOSH approved respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice.
Skin Protection: Wear rubber gloves.
Eye Protection: Safety glasses with sideshields or safety goggles.
Other: Eye wash and safety shower should be available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not determined
Melting Point: 415 to 455 Degrees F (213 to 235 Degrees C)
Vapor Pressure: Not determined
Vapor Density: (Air = 1) Greater than 1
Volatile Components: None
Solubility In Water: Negligible
pH: Not applicable
Specific Gravity: 9 to 11
Evaporation Rate: Not applicable
Appearance: Silver-gray wire metal
Odor: None
Will Dissolve In: Not applicable
Material Is: Solid

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable.
Conditions To Avoid: Do not heat over 480 Degrees F (250 Degrees C).
Hazardous: If overheated, oxides of tin, bismuth, copper, and silver.
Decomposition
Products:
Incompatibility/ None.
Materials To Avoid:
Hazardous: Will not occur.
Polymerization:

SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation: Fumes from soldering operations may be irritating to the respiratory system. Prolonged exposure to fumes may cause stannosis, a mild benign pneumoconiosis. Repeated inhalation of fumes may cause occupational asthma. Symptoms may be delayed.
Skin: Fumes may cause irritation.
Eye: Fumes may cause irritation.
Ingestion: Ingestion may cause abdominal pain, nausea, vomiting, diarrhea, gastroenteritis, or internal cuts.
Toxicity Data: No data available
Sensitization: None of the components are known to cause sensitization.
Carcinogenicity: None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.
Mutagenicity: None of the components have been found to be mutagenic.
Reproductive Toxicity: None of the components are known to cause adverse reproductive effects.
Medical Conditions Aggravated By Exposure: Persons with pre-existing skin, lung, kidney or liver disorders may be at increased risk from exposure to the fumes of this product.

SECTION 12 ECOLOGICAL INFORMATION

No data available. Keep out of waterways.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with federal, state, and local regulations. It is the responsibility of the end-user to determine at the time of disposal of the product.
RCRA Hazardous Waste Number: None
EPA Hazardous Waste ID Number: None
EPA Hazard Waste Class: None

SECTION 14 TRANSPORT INFORMATION

DOT

Proper Shipping Name: Not regulated
Hazard Class/Packing Group: None
UN/NA Number: None
Hazard Labels: None

IMDG

Proper Shipping Name: Not regulated
Hazard Class/Packing Group: None
UN Number: None
Label: None

2004 North American Emergency Response Guidebook Number: Not applicable

SECTION 15 REGULATORY INFORMATION

Hazard Category for Section 311/312: Not hazardous unless heated. If heated, acute and chronic health hazards.

Section 302 Extremely Hazardous Substances (TPQ): This product does not contain chemicals regulated under SARA Section 302.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

| <u>Chemical</u> | <u>CAS #</u> | <u>% wt</u> |
|-----------------|--------------|-------------|
| Copper | 7440-50-8 | 1 - 5% |
| Silver | 7440-22-4 | 1 - 5% |

CERCLA 103 Reportable Quantity: This product contains no chemicals subject to CERCLA reporting.

California Proposition 65: This product does not contain chemicals regulated under California Proposition 65.

TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

Canadian WHMIS Classification: Not a controlled product.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16 OTHER INFORMATION

NFPA and HMIS:

NFPA Hazard Signal: Health: 0 Flammability: 0 Reactivity: 0 Special: None
HMIS Hazard Signal: Health: 0 Flammability: 0 Reactivity: 0 PPE: B

DISCLAIMER

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.

MATERIAL SAFETY DATA SHEET

CODE: M/L 1134

This Material Safety Data Sheet complies with
the U.S. OSHA Hazard Communication
Standard 29CFR 1910.1200

PRODUCT: DUTCH BOY® PASTE FLUX

NFPA/HMIS HAZARD CODES: HEALTH: 1/1 FIRE: 0/0 REACTIVITY: 0/0 SPECIAL: NA

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

SECTION I

MANUFACTURER: Taracorp **ISSUE DATE:** October 2004
ADDRESS: 1690 Lowery Street
Winston-Salem, NC 27101
PHONE: (336) 777-8600

SECTION II HAZARDOUS INGREDIENTS

| <u>INGREDIENTS</u> | <u>CAS NO.</u> | <u>PERCENT</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|--------------------|----------------|----------------|-----------------|------------------|
| Petrolatum | 08002059 | 70.8 | N/A | N/A |
| Zinc Chloride | 07646857 | 25.3 | 1mg/m3 | 1mg/m3 |
| Moisture, as water | | 3.9 | | |

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR: Amber colored jelly
BOILING POINT: 74° C
VAPOR PRESSURE: 10MM Hg
VAPOR DENSITY: NA
SOLUBILITY IN H2O: NO
SPECIFIC GRAVITY: 0.9
MELTING POINT: 67° C
EVAPORATION RATE: NA

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 180°C
FLAMMABLE LIMITS: NA
AUTO IGNITION TEMPERATURE: NA
EXTINGUISHING MEDIUM: No Preference
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE & EXPLOSIVE CONDITIONS: None

SECTION V REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: NA
INCOMPATIBILITIES: None
HAZARDOUS DECOMPOSITION: None
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION IV HEALTH HAZARD DATA

ROUTES OF ENTRY: inhalation (fume), ingestion, dermal.

SYMPTOMS & EFFECT OF OVEREXPOSURE:

Acute: Inhalation can cause irritation & damage to eyes, lungs, mucous & mucous membranes. Skin contact can cause ulceration of the skin.

Chronic: Irritation of the eyes, skin and mucous membranes.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Skin conditions or respiratory problems.

CARCINOGENICITY: Not listed.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush with water for 10 minutes. Obtain immediate medical attention.

SKIN: Wash thoroughly with water; If irritation develops, obtain medical attention.

ACUTE INHALATION: Remove to fresh air. Obtain immediate medical attention.

INGESTION: Give water; Obtain immediate medical attention.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE THIS MATERIAL IS RELEASED OR SPILLED: Normal clean-up procedures are sufficient. Protect skin from exposure during the procedure.

WASTE DISPOSAL METHOD: Permitted landfill, check local ordinances.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store below melting temperature: do not expose to heat in storage.

OTHER PRECAUTIONS: None

SECTION VIII CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH Approved Respirator

VENTILATION: Good general dilution ventilation

PROTECTIVE GLOVES: Recommended for prolonged contact/heat.

EYE PROTECTION: Safety glasses or goggles are recommended.

OTHER PROTECTIVE EQUIPMENT: Safety equipment should be worn as appropriate for the work environment; includes, apron, safety goggles.

WORK/HYGIENIC PRACTICES: Wash hands thoroughly after use to prevent exposure to the eyes or skin.

SECTION IX UNITED STATES SARA TITLE III INFORMATION

This product/mixture contains the following toxic chemical(s) subject to the reporting of Section 313 of the Title of the U.S. Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. Percent by weight of each toxic chemical abstract system (CAS) number are to be found in Section II of this Material Safety Data Sheet.

| CHEMICAL NAME | EHS RQ (LBS) | EH TPQ (LBS) | SEC. 313 | 313 CATEGORY | 311/312 CATEGORIES |
|---------------|--------------|--------------|----------|--------------|--------------------|
| | *1 | *2 | *3 | *4 | *5 |
| Zinc Chloride | 1,000 | 1,000 | yes | yes | H-1 |

*1=Reportable quantity of extremely hazardous material substance, Section 302

*2=Threshold planning quantity, extremely hazardous substance, Section 302

*3=Toxic chemical list, Section 313.

*4=Chemical category as required by Section 313 (40 CFR 372.42). Subject to annual release reporting requirements.

*5=Hazard category as required by SARA Section 311/312 reporting:

Health H-1=Immediate (ACUTE) Health Hazard

H-2=Delayed (CHRONIC) Health Hazard

Physical

P-3= Fire Hazard

P-4= Sudden Release of Pressure Hazard

P-5= Reactive Hazard

SECTION X TRANSPORTATION AND DISPOSAL CONSIDERATIONS

D.O.T. PROPER SHIPPING NAME:

Non-hazardous

WASTE DISPOSAL METHOD:

Dispose of in accordance with EPA regulations

Rev 002

Date: 11/24/04

M/L 1134

SECTION XI OTHER INFORMATION

This Material Safety Data Sheet is offered solely for your information, consideration and investigation. Taracorp, Inc. provides no warranties, either express or implied, and assumes no responsibilities for the accuracy or completeness of the data contained in this document. The data in this Material Safety Data Sheet relates only to this product and does not relate to use in combination with any other material or in any process.

MATERIAL SAFETY DATA SHEET

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

Trade Name: OATEY ALL PURPOSE CEMENT
Product Use: Cement for PVC, ABS, AND CPVC Pipe
Formula: PVC & CPVC Resin in Solvent Solution
Synonyms: None
Firm Name & Mailing Address: OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135, U.S.A. <http://www.oatey.com>
Oatey Phone Number: (216) 267-7100 or (800) 321-9532
Emergency Phone Numbers: For Emergency First Aid call 1-303-623-5716 COLLECT. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1-703-527-3887.
Prepared By: Corporate Director - Safety and Environmental Compliance
Preparation Date: May 20, 2005

SECTION 2

COMPOSITION/INFORMATION ON INGREDIENTS

| <u>INGREDIENTS:</u> | <u>%wt/wt:</u> | <u>CAS NUMBER:</u> | <u>ACGIH TLV TWA:</u> | <u>OSHA PEL TWA:</u> | <u>OTHER:</u> |
|---|----------------|--------------------|------------------------------|----------------------|---------------|
| Tetrahydrofuran | 30 - 45% | 109-99-9 | 50 ppm(skin) 100 ppm STEL | 200 ppm | 25 ppm (Mfg) |
| Methyl Ethyl Ketone | 20 - 40% | 78-93-3 | 200 ppm 300 ppm STEL | 200 ppm | None |
| Cyclohexanone | 10 - 20% | 108-94-1 | 20 ppm(skin) 50 ppm STEL | 50 ppm | None |
| PVC Resin (Non-hazardous) | 8 - 15% | 9002-86-2 | 10 mg/m3 | 15 mg/m3 | None |
| CPVC Resin (Non-hazardous) | 3 - 7% | 68648-82-8 | 10 mg/m3 | None | None |
| Amorphous Fumed Silica (Non-hazardous) | 1 - 4% | 112945-52-5 | 10 mg/m3 | None | None |

OSHA Hazard Classification: Flammable, irritant, organ effects

SECTION 3

HAZARDS IDENTIFICATION

Emergency Overview:

Milky liquid with an ether-like odor. Extremely flammable liquid and vapor. Vapors may cause flash fire. May cause eye and skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects. Swallowing may cause irritation, nausea, vomiting, diarrhea and kidney or liver disorders. Aspiration hazard. May be fatal if swallowed. Symptoms may be delayed.

SECTION 4

FIRST AID MEASURES

CALL 1-303-623-5716 COLLECT

Skin: Remove contaminated clothing immediately. Wash all exposed areas with soap and water. Get medical attention if irritation develops. Remove dried cement with Oatey Plumber's Hand Cleaner or baby oil.
Eyes: If material gets into eyes or if fumes cause irritation, immediately flush eyes with plenty of water until chemical is removed. If irritation persists, get medical attention immediately.
Inhalation: If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.
Ingestion: **DO NOT INDUCE VOMITING.** Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

SECTION 5 FIRE FIGHTING MEASURES

Flashpoint / Method: 0 - 5 Degrees F. (-18 - -15 Degrees C) / PMCC
Flammability: LEL = 1.8 % Volume, UEL = 11.8 % Volume
Extinguishing: Use dry chemical, CO₂, or foam to extinguish fire. Cool fire
Media: exposed container with water. Water may be ineffective as an
extinguishing agent.
Special Fire: Firefighters should wear positive pressure self-contained
Fighting: breathing apparatus and full protective clothing for fires in
Procedure: areas where chemicals are used or stored
Unusual Fire and: Extremely flammable liquid. Keep away from heat and all
Explosion: sources of ignition including sparks, flames, lighted
Hazards: cigarettes and pilot lights. Containers may rupture or
explode in the heat of a fire. Vapors are heavier than air
and may travel to a remote ignition source and flash back.
This product contains tetrahydrofuran that may form explosive
organic peroxide when exposed to air or light or with age.
Hazardous: Combustion will produce toxic and irritating vapors including
Decomposition: carbon monoxide, carbon dioxide and hydrogen chloride.
Products:

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill or: Remove all sources of ignition and ventilate area. Stop leak if it
Leak: can be done without risk. Personnel cleaning up the spill should
Procedures: wear appropriate personal protective equipment, including respirators
if vapor concentrations are high. Soak up spill with an inert
absorbent such as sand, earth or other non-combusting material. Put
absorbent material in covered, labeled metal containers. Prevent
liquid from entering watercourses, sewers and natural waterways.
Report releases to authorities as required. See Section 13 for
disposal information.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors
or mists. Use with adequate ventilation (equivalent to outdoors).
Wash thoroughly after handling. Do not eat, drink or smoke in the
work area. Keep product away from heat, sparks, flames and all other
sources of ignition. No smoking in storage or use areas. Keep
containers closed when not in use.
Storage: Store in a cool, dry, well-ventilated area away from incompatible
materials. Keep containers closed when not in use.
Other: "Empty" containers retain product residue and can be hazardous.
Follow all MSDS precautions in handling empty containers. Do not cut
or weld on or near empty or full containers.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Open doors & windows. Provide ventilation capable of maintaining
emissions at the point of use below recommended exposure limits. If
used in enclosed area, use exhaust fans. Exhaust fans should be
explosion-proof or set up in a way that flammable concentrations of
solvent vapors are not exposed to electrical fixtures or hot
surfaces.
Respiratory: For operations where the exposure limit may be exceeded, a NIOSH
Protection: approved organic vapor respirator or supplied air respirator is
recommended. Equipment selection depends on contaminant type and
concentration, select in accordance with 29 CFR 1910.134 and good
industrial hygiene practice. For firefighting, use self-contained
breathing apparatus.
Skin: Rubber gloves are suitable for normal use of the product. For long
Protection: exposures chemical resistant gloves may be required such as 4H(tm)
or Silver Shield(tm) to avoid prolonged skin contact.

SECTION 8 (Continued)

Eye Protection: Safety glasses with side shields or safety goggles.
Other: Eye wash and safety shower should be available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 151 Degrees F / 66 Degrees C
Melting Point: Not applicable
Vapor Pressure: 145 mmHg @ 20 Degrees C
Vapor Density: (Air = 1) 2.5
Volatile Components: 84-88%
Solubility In Water: Negligible
pH: Not applicable
Specific Gravity: 0.93 +/- 0.02 @ 20 Degrees C
Evaporation Rate: (BUAC = 1) = 5.5 - 8.0
Appearance: Milky Liquid
Odor: Ether-Like
Will Dissolve In: Tetrahydrofuran
Material Is: Liquid

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable.
Conditions To Avoid: Avoid heat, sparks, flames and other sources of ignition.
Hazardous Decomposition: Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.
Incompatibility/Products: Oxidizing agents, alkalis, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. May attack plastic, resins and rubber.
Materials To Avoid: Will not occur.
Hazardous Polymerization:

SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation: Vapors or mists may cause mucous membrane and respiratory irritation, coughing, headache, dizziness, dullness, nausea, shortness of breath and vomiting. High concentrations may cause central nervous system depression, narcosis and unconsciousness. May cause kidney, liver and lung damage.
Skin: May cause irritation with redness, itching and pain. Methyl ethyl ketone and cyclohexanone may be absorbed through the skin causing effects similar to those listed under inhalation.
Eye: Vapors may cause irritation. Direct contact may cause irritation with redness, stinging and tearing of the eyes. May cause eye damage.
Ingestion: Swallowing may cause abdominal pain, nausea, vomiting and diarrhea. Aspiration during swallowing or vomiting can cause chemical pneumonia and lung damage. May cause kidney and liver damage.
Chronic Toxicity: Prolonged or repeated overexposure cause dermatitis and damage to the kidney, liver, lungs and central nervous system.
Toxicity Data: Cyclohexanone: Oral rat LD50: 1,620 mg/kg
Inhalation rat LC50: 8,000 ppm/4 hours
Skin rabbit LD50: 1 mL/kg
Tetrahydrofuran: Oral rat LD50: 1,650 mg/kg
Inhalation rat LC50: 21,000 ppm/3 hours
Methyl Ethyl Ketone: Oral rat LD50: 2,737 mg/kg
Inhalation rat LC50: 23,500 mg/m3/8 hours
Skin rabbit LD50: 6,480 mg/kg

SECTION 11 (Continued)

Sensitization: None of the components are known to cause sensitization.
Carcinogenicity: None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA. The National Toxicology Program has reported that exposure of mice and rats to tetrahydrofuran (THF) vapor levels up to 1800 ppm 6 hr/day, 5 days/week for their lifetime caused an increased incidence of kidney tumors in male rats and liver tumors in female mice. The significance of these findings for human health is unclear at this time, and may be related to "species specific" effects. Elevated incidences of tumors in humans have not been reported for THF. ACGIH has classified cyclohexanone (CYH) and tetrahydrofuran as "A3," Confirmed Animal Carcinogens with Unknown Relevance to Humans.
Mutagenicity: Cyclohexanone has been positive in bacterial and mammalian assays. Methyl ethyl ketone and tetrahydrofuran are generally thought not to be mutagenic.
Reproductive Toxicity: Methyl ethyl ketone and cyclohexanone have been shown to cause embryofetal toxicity and birth defects in laboratory animals. Tetrahydrofuran has been found to cause adverse developmental effects only when exposure levels cause other toxic effects to the mother.
Medical Conditions Aggravated By Exposure: Persons with pre-existing skin, lung, kidney or liver disorders may be at increased risk from exposure to this product.

SECTION 12 ECOLOGICAL INFORMATION

This product is not expected to be toxic to aquatic organisms.
Cyclohexanone: 96 hour LC50 values for fish is over 100 mg/l.
Tetrahydrofuran: 96 hour LC50 fathead minnow: 2160 mg/L.
Methyl Ethyl Ketone: 96 hour LC50 for fish is greater than 100 mg/L.
VOC Information: This product emits VOC's (volatile organic compounds) in its use. Make sure that use of this product complies with local VOC emission regulations, where they exist.
VOC Level: 600 g/l per SCAQMD Test Method 316A.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with current local, state and federal regulations.
RCRA Hazardous Waste Number: U057, U159, U213
EPA Hazardous Waste ID Number: D001, D035, F003, F005
EPA Hazard Waste Class: Ignitable Waste. Toxic Waste (Methyl Ethyl Ketone content)

SECTION 14 TRANSPORT INFORMATION

| DOT | <u>Less than 1 Liter (0.3 gal)</u> | <u>Greater than 1 Liter (0.3 gal)</u> |
|-----------------------------|--|---------------------------------------|
| Proper Shipping Name: | Consumer Commodity | Adhesives |
| Hazard Class/Packing Group: | ORM-D | 3, PGII |
| UN/NA Number: | None | UN1133 |
| Hazard Labels: | None | Flammable Liquid |
| IMDG | | |
| Proper Shipping Name: | Adhesives | Adhesives |
| Hazard Class/Packing Group: | 3, II | 3, II |
| UN Number: | UN1133 | UN1133 |
| Label: | None (Limited Quantities are excepted from labeling) | Class 3 (Flammable Liquid) |

2004 North American Emergency Response Guidebook Number: 127 or 128

SECTION 15 REGULATORY INFORMATION

Hazard Category for Section 311/312: Acute Health, Chronic Health, Flammable

Section 302 Extremely Hazardous Substances (TPQ): This product does not contain chemicals regulated under SARA Section 302.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

| <u>Chemical</u> | <u>CAS #</u> | <u>% by wt.</u> |
|---------------------|--------------|-----------------|
| Methyl Ethyl Ketone | 78-93-3 | 20-40% |

CERCLA 103 Reportable Quantity: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Tetrahydrofuran (45% maximum) of 1,000 lbs, is 2,222 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65: This product contains trace amounts of chemicals known to the State of to cause cancer. Under normal Use conditions, exposure to these chemicals at levels above the State of California "No Significant Risk Level" (NSRL) are unlikely. Oatey strongly encourages the use of proper personal protective equipment (PPE) and ventilation guidelines noted in Section 8 to minimize exposure to these chemicals.

TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

Canadian WHIMS Classification: Class B, Division 2; Class D, Division 2, Subdivision B; Class D, Division 2, Subdivision A. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16 OTHER INFORMATION

NFPA and HMIS:

NFPA Hazard Signal: Health: 2 Flammability: 3 Reactivity: 1 Special: None
HMIS Hazard Signal: Health: 2* Flammability: 3 Reactivity: 1 PPE: G

Disclaimer:

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION
Trade Name: OATEY GREAT WHITE PIPE JOINT COMPOUND WITH PTFE
Product Use: Compound for sealing and lubricating threaded pipe joints.
Formula: See SECTION 2
Synonyms: Pipe dope.
Firm Name & Mailing Address: OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135, U.S.A. <http://www.oatey.com>
Oatey Phone Number: (216) 267-7100 or (800) 321-9532
Emergency Phone Numbers: For Emergency First Aid call 1-303-623-5716 COLLECT. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1-703-527-3887.
Prepared By: Corporate Director - Safety and Environmental Compliance
Preparation Date: April 19, 2006

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

| <u>INGREDIENTS:</u> | <u>%wt/wt:</u> | <u>CAS NUMBER:</u> | <u>ACGIH TLV TWA:</u> | <u>OSHA PEL TWA:</u> | <u>OTHER:</u> |
|---------------------|----------------|--------------------|-----------------------|--------------------------|---------------|
| Calcium Carbonate | 35 - 45% | 1317-65-3 | 10 mg/M3 | 15 mg/M3 (Total dust) | None |
| Hydrocarbon oil | 30 - 40% | 64742-52-5 | 5 mg/M3 | 5 mg/M3 | None |
| Titanium Dioxide | 5 - 10% | 13463-67-7 | 10 mg/M3 | 15 mg/M3 | None |
| Clay | 1 - 5% | 68953-58-2 | 10 mg/M3 | 10 mg/M3 | None |

OSHA Hazard Classification: Not hazardous

SECTION 3 HAZARDS IDENTIFICATION
Emergency Overview:
White putty with a mild petroleum odor. May cause mechanical irritation of the eyes.

SECTION 4 FIRST AID MEASURES
CALL 1-303-623-5716 COLLECT
Skin: Wash all exposed areas with soap and water.
Eyes: As with most foreign materials, should eye contact occur, flush eyes with water until foreign matter is removed. If irritation develops, seek medical attention.
Inhalation: Not a likely route of entry.
Ingestion: **DO NOT INDUCE VOMITING.** Rinse mouth with water. Call a physician.

SECTION 5 FIRE FIGHTING MEASURES
Flashpoint / Method: Not applicable
Flammability: LEL = Not determined, UEL = Not determined
Extinguishing: Use dry chemical, CO2, or foam to extinguish fire. Cool fire exposed container with water. Water may be ineffective as an extinguishing agent.
Media: As appropriate for surrounding fire.
Special Fire Fighting Procedure:
Unusual Fire and Explosion Hazards: None
Hazardous Decomposition Products: Combustion will produce toxic and irritating vapors including carbon monoxide and carbon dioxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill or Leak: Sweep up dried material and dispose of with ordinary trash.
Procedures:

SECTION 7 HANDLING AND STORAGE

Handling: No special handling required. Wash thoroughly after handling.
Storage: Store in a cool, dry area.
Other: None.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Use with adequate ventilation. If putty dries and becomes dusty,
Respiratory: wear a dust respirator during clean-up.
Protection:
Skin: Gloves are not normally required.
Protection:
Eye: Safety glasses with side shields are recommended.
Protection:
Other: Eye wash should be available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not applicable
Melting Point: Not applicable
Vapor Pressure: Not determined
Vapor Density: Not determined
Volatile Components: Not determined
Solubility In Water: Negligible.
pH: Not applicable
Specific Gravity: 2.0 @ 20 Degrees C
Evaporation Rate: Not determined
Appearance: White Paste
Odor: Petroleum odor
Will Dissolve In: Not determined
Material Is: Paste

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable.
Conditions To Avoid: Avoid heat, flames and other sources of ignition.
Hazardous: Combustion will produce toxic and irritating vapors
Decomposition: including carbon monoxide and carbon dioxide.
Products:
Incompatibility/ Oxidizing agents.
Materials To Avoid:
Hazardous: Will not occur.
Polymerization:

SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation: Not a likely route of entry.
Skin: May cause mild irritation. Prolonged and repeated contact may cause dermatitis.
Eye: Contact may cause irritation.
Ingestion: Swallowing may cause a laxative effect including cramps and diarrhea.
Chronic Toxicity: Prolonged or repeated overexposure cause dermatitis. to the kidney, liver, lungs and central nervous system.
Toxicity Data: Not available
Sensitization: None of the components are known to cause sensitization.
Carcinogenicity: None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.
Mutagenicity: None of the components are known to be mutagenic.
Reproductive Toxicity: None of the components are known to be toxic to reproduction.
Medical Conditions: None known.
Aggravated By Exposure:

SECTION 12 ECOLOGICAL INFORMATION

No ecotoxicological information known.

VOC

Information: This product has very low VOC level.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with current local, state and federal regulations.

RCRA Hazardous Waste Number: Not a hazardous waste.

EPA Hazardous Waste ID Number: Not a hazardous waste.

EPA Hazard Waste Class: Not a hazardous waste.

SECTION 14 TRANSPORT INFORMATION

| DOT | <u>Less than 1 Liter (0.3 gal)</u> | <u>Greater than 1 Liter (0.3 gal)</u> |
|-----------------------------|------------------------------------|---------------------------------------|
| Proper Shipping Name: | Not regulated. | Not regulated. |
| Hazard Class/Packing Group: | None | None |
| UN/NA Number: | None | None |
| Hazard Labels: | None | None |

IMDG

| | |
|-----------------------------|---------------|
| Proper Shipping Name: | Not regulated |
| Hazard Class/Packing Group: | None |
| UN Number: | None |
| Label: | None |

2004 North American Emergency Response Guidebook Number: None

SECTION 15 REGULATORY INFORMATION

Hazard Category for Section 302 Extremely Hazardous Substances (TPQ): Not hazardous. This product does not contain chemicals regulated under SARA Section 302.

Section 313 Toxic Chemicals: This product does not contain any chemicals regulated under SARA Title III Section 313.

CERCLA 103 Reportable Quantity: This product does not contain any chemicals regulated under CERCLA.

California Proposition 65: This product does not contain any chemicals subject To California Proposition 65 regulation.

TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

Canadian WHIMS Classification: Not a controlled product. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16 OTHER INFORMATION

NFPA and HMIS:
NFPA Hazard Signal: Health: 0 Flammability: 0 Reactivity: 0 Special: None
HMIS Hazard Signal: Health: 0 Flammability: 0 Reactivity: 0 PPE: A

Disclaimer:

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.



Material Safety Data Sheet

E

1. Chemical Product and Company Identification

DESCRIPTION: ELMER'S ULTIMATE GLUE
PRODUCT TYPE: POLYURETHANE
APPLICATION: FOR PRODUCT CODES SEE SECTION 16

• Manufacturer/Supplier Information

MSDS Prepared by:
Elmer's Products, Inc. Emergency Phone Number
1000 Kingsmill Parkway Poison Control Center
Columbus, OH 43229 1-800-228-5635 ext 22
For additional health, safety or regulatory information, call 614-225-7695.
Call 1-800-848-9400 to place an order or request additional MSDSs.

2. Composition, Information on Ingredients

The ingredients listed below have been associated with one or more immediate and/or delayed(*) health hazards. Risk of damage and effects depends upon duration and level of exposure. BEFORE USING, HANDLING, OR EXPOSURE TO THESE INGREDIENTS, READ AND UNDERSTAND THE MSDS.

| | | % by weight |
|-----------|---|-------------|
| 101-68-8 | *Diphenylmethane 4,4'-Diisocyanate | 10-30 |
| 9016-87-9 | *Polymeric Diphenylmethane Diisocyanate | 30-50 |
| | *Modified Polymeric MDI | 50-70 |

3. Hazards Identification

3.1 Emergency Overview

| | |
|------------|---------------------------|
| Appearance | Viscous dark brown liquid |
| Odor | Slightly musty |

WARNING!
Hazardous polymerization may occur.
Will burn.
Reacts with water.
Harmful if inhaled. If material is heated, sprayed or otherwise dispersed, may cause irritation of nose, throat and lungs.
May cause allergic skin and respiratory reactions.
May be harmful if absorbed through skin.
Causes skin irritation.
Causes eye irritation.

• HMIS Rating

HEALTH = 3 (serious)
FLAMMABILITY = 1 (slight)
REACTIVITY = 1 (slight)
CHRONIC = *

3.2 Potential Health Effects

• Immediate Hazards

INGESTION: Not expected to be harmful under normal conditions of use.
If accidentally swallowed, burns or irritation to mucous membranes, esophagus or GI tract can result.

INHALATION: Harmful if inhaled. If material is heated, sprayed or otherwise dispersed, may cause irritation of nose, throat and lungs. Concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Effects may be delayed.

SKIN: Skin contact may result in allergic skin reactions or respiratory sensitization. However, it is not expected to result in absorption of amounts sufficient to cause other adverse effects. Causes irritation.

EYES: Causes irritation.

• Delayed Hazards

Diphenylmethane 4,4'-Diisocyanate 101-68-8
Lung tumors have been observed in laboratory animals exposed to aerosol droplets of diphenylmethane 4,4'-diisocyanate (MDI)/polymeric MDI (6 mg/m) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. This material has not been listed by NTP, classified by IARC, nor regulated by OSHA as a carcinogen.
May cause allergic skin and respiratory reactions.
Can cause lung damage. Pre-existing respiratory disorders may be aggravated by exposure.

Polymeric Diphenylmethane Diisocyanate 9016-87-9
Lung tumors have been observed in laboratory animals exposed to aerosol droplets of diphenylmethane 4,4'-diisocyanate (MDI)/polymeric MDI (6 mg/m) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. This material has not been listed by NTP, classified by IARC, nor regulated by OSHA as a carcinogen.
May cause allergic skin and respiratory reactions.
Can cause lung damage. Pre-existing respiratory disorders may be aggravated by exposure.

Modified Polymeric MDI
May cause allergic skin and respiratory reactions.
-- See Footnote C.
Footnote C: As of the date of issuance of this document, this material has not been listed by NTP, classified by IARC nor regulated by OSHA as a carcinogen.

4. First Aid Measures

INGESTION: If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other additional treatment directions.

INHALATION: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

SKIN: Immediately wash with soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if symptoms occur. Wash clothing and shoes before reuse.

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during irrigation to insure water contact with entire surface of eyes and lids. Call a physician.

5. Fire Fighting Measures

Flash Point >250 deg F (121 deg C)
Will burn.
In case of fire, DO NOT use water. Use dry chemical or CO2.

6. Accidental Release Measures

Soak up with absorbent material and remove to a chemical disposal area. Prevent entry into natural bodies of water.

7. Handling and Storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing.

Wash thoroughly after handling. Always use appropriate Personal Protective Equipment (PPE).

INHALATION: Do not breathe vapor. Use with adequate ventilation.

SKIN: Avoid contact with skin and clothing.

EYES: Avoid contact with eyes.

7.2 Storage

Keep container closed.

Keep from freezing.

Keep in tightly sealed containers and store in a cool dry place, avoiding exposure to heat, light, moisture and air.

Store at 60-100 F (16-38 C).

8. Exposure Controls/Personal Protection

8.1 Exposure Controls

ENGINEERING CONTROLS: The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate.

If airborne contaminants are generated when the material is heated or

handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

8.2 Personal Protection

Wear synthetic apron and boots if contact is likely. Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection. Use goggles and face shield if contact is likely. Wear impervious gloves as required to prevent skin contact.

8.3 Exposure Guidelines

| | |
|--|-----------|
| Diphenylmethane 4,4'-Diisocyanate | 101-68-8 |
| ACGIH TLV: 0.005 ppm (0.051 mg/m) TWA | |
| OSHA PEL: 0.02 ppm (0.2 mg/m) Ceiling | |
| Polymeric Diphenylmethane Diisocyanate | 9016-87-9 |
| ACGIH TLV: NONE ESTABLISHED | |
| OSHA PEL: NONE ESTABLISHED | |
| Modified Polymeric MDI | |
| ACGIH TLV: NONE ESTABLISHED | |
| OSHA PEL: NONE ESTABLISHED | |

9. Physical and Chemical Properties

| | |
|------------------------------------|---|
| pH @ 25 C | Not applicable |
| Specific Gravity | 1.14 |
| Appearance | Viscous dark brown liquid |
| Boiling Point | Not applicable |
| Vapor Density (Air=1) | 8.5 approx. |
| Vapor Pressure, mm Hg @ 20 C | <0.0003 |
| Evaporation Rate (Butyl Acetate=1) | Not available |
| Flash Point | >250 deg F (121 deg C) |
| Melting point | Not available |
| Odor | Slightly musty |
| Odor Threshold, ppm | 0.4 (4,4'-Diphenylmethane diisocyanate) |
| Solubility (other) | Soluble in most organic solvents |
| Solubility in Water | Reacts with water |

10. Stability and Reactivity

Normally stable, but will react with water.

- **Incompatibilities:**

Contact with water, alcohols, amines and alkalies causes polymerization.

- **Decomposition products may include:**

None known to company.

- **Hazardous polymerization:**

May occur.

- **Other Hazards:**

None known to company.

11. Toxicological Information

See Section 3 Hazards Identification information.

Diphenylmethane 4,4'-Diisocyanate 101-68-8

LC50: rat=178 mg/m (RTECS)

LD50: orl-mus=2200 mg/kg (RTECS)

Polymeric Diphenylmethane Diisocyanate 9016-87-9

LC50: rat=490 mg/m /4H (respirable aerosol)

LD50: orl-rat>5000 mg/kg; skn-rbt>5000 mg/kg

Modified Polymeric MDI

LC50: Not available

LD50: Not available

12. Ecological Information

Not determined.

13. Disposal Considerations

Recover free liquid. Absorb residue and dispose of according to local, state/provincial, and federal requirements.

14. Transport Information

14.1 U.S. Department of Transportation (DOT)

The data provided in this section is for information only and may not be specific to your package size. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

Non-Regulated.

14.2 Canadian Transportation of Dangerous Goods (TDG)

Non-Regulated.

15. Regulatory Information (Selected Regulations)

15.1 U.S. Federal Regulations

- **OSHA Hazard Communication Standard
29CFR1910.1200**

This material is a "health hazard" and/or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

- **SARA Title III: Section 311/312**

Reactivity hazard
Immediate health hazard
Delayed health hazard

• SARA Title III Section 313 and 40 CFR Part 372

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

| | | |
|--|-----------|--------|
| Methylenebis(4-phenylisocyanate) (MDI) | 101-68-8 | 28.00% |
| Polymeric Diphenylmethane Diisocyanate | 9016-87-9 | 45.00% |

• TSCA Section 8(b) Inventory

All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

15.2 Canadian Regulations

• Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

CLASS D, DIV 1A
CLASS D, DIV 2A, 2B

• Canadian Environmental Protection Act (CEPA)

All reportable chemical substances are listed on the Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

• National Pollutant Release Inventory (NPRI)

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory.

| | | |
|--|-----------|--------|
| Methylenebis(phenylisocyanate) | 101-68-8 | 28.00% |
| Polymeric Diphenylmethane Diisocyanate | 9016-87-9 | 45.00% |

16. Other Information

MSDS covers items:

U.S.: P9410, P9411, P9412, P9413

Canada:

HL (Cautions Required): Products bearing the HL Health Label (Cautions Required) Seal of The Art & Creative Materials Institute, Inc. (ACMI) are certified to be properly labeled in a program of toxicological evaluation by a medical expert. This program is reviewed by ACMI's Toxicological Advisory Board. These products are certified by ACMI to be labeled in accordance with the chronic hazard labeling standard, ASTM D-4236 and Federal Law, P.L. 100-695.

• User's Responsibility

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

• Disclaimer

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States or Canadian patent. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

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PREVIOUS ISSUE: 01-APR-03

| | | | | | | | | |
|--|--|---|--------|---|------|---|------------|---|
| NFPA  Health Fire Reactivity |  MATERIAL SAFETY DATA SHEET Meets requirements of 29 CFR 1910.1200 (Federal Hazard Communication Standard) | HMS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Health</td> <td style="width: 20%; text-align: center;">1</td> </tr> <tr> <td>Fire</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">1</td> </tr> </table> | Health | 1 | Fire | 1 | Reactivity | 1 |
| Health | 1 | | | | | | | |
| Fire | 1 | | | | | | | |
| Reactivity | 1 | | | | | | | |

SECTION I

| | |
|--|--|
| MANUFACTURER'S NAME: RELTON CORPORATION 317 ROLYN PLACE ARCADIA, CA 91007-2838 EMERGENCY RESPONSE for spill, leak, exposure, etc: Chemtrec - (800) 424-9300 For non-emergency product information: Relton Corp - (323) 681-2551 (800) 423-1505 | PRODUCT NAME OR NUMBER: NEW Rapid Tap® CHEMICAL NAME & SYNONYMS: Predominantly Chlorinated Paraffin CHEMICAL FAMILY: Chlorinated Paraffin FORMULA: Mixture (see Section II) |
|--|--|

SECTION II COMPONENTS

| | TLV | PEL | STEL | C.A.S. NO. | % wt. |
|------------------------------|---------------------|----------------------|------|--------------|-------|
| Paraffin, chlorinated | NE | NE | NE | 61788-76-9 | < 40 |
| Mineral Oil | 5 mg/m ³ | 5 mg/m ³ | NE | 64742-58-1 | < 50 |
| Metal-Cutting-Fluid Additive | 5 mg/m ³ | 10 mg/m ³ | NE | Trade secret | < 8 |
| Soybean Oil, epoxidized | NE | NE | NE | 8013-07-8 | > 1 |
| Olefin Sulfide | 5 mg/m ³ | 5 mg/m ³ | NE | Trade secret | < 1 |
| Cinnamon Oil Perfume | NE | NE | NE | -- -- | trace |

SECTION III - PHYSICAL DATA

Data is based upon testing mixture as a whole.

| | | |
|--|---|------------------------|
| BOILING POINT (X°F) (C°): 450° F | SPECIFIC GRAVITY (H ₂ O=1) @ 25° C: 1.02 | Freezing Point: -20° F |
| VAPOR PRESSURE (mm Hg): NF | PERCENT VOLATILE BY VOLUME (%): NA | VOC: Negligible |
| VAPOR DENSITY (AIR=1): NF | EVAPORATION RATE (WATER=1): Slower than water | |
| SOLUBILITY IN WATER: < .2% | pH: NA | |
| APPEARANCE AND ODOR: light amber color; slight, sweet odor | | MATERIAL IS LIQUID |

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Data is based upon testing mixture as a whole.

| | | | |
|---|------------------------------------|-----|-----|
| FLASH POINT (method used): 350° F COC | FLAMMABLE LIMITS: Non-Flammable | LFL | UFL |
| | | ND | ND |
| EXTINGUISHING MEDIA: Carbon Dioxide, Foam, Dry Chemical, Water, Fog | | | |
| SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus with full facepiece in a pressure-demand mode; full-body protective clothing. Treat as oil fire | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustion can produce acid gases (hydrogen chloride, hydrogen sulfide) Exposing containers to intense heat could cause drums to rupture. Cool fire-exposed containers with water spray to prevent rupture | | | |

SECTION V - HEALTH HAZARD DATA

| |
|--|
| ROUTES OF ENTRY & SYMPTOMS OF OVEREXPOSURE: Eyes and skin: may cause mild irritation. Inhalation: may cause mild upper respiratory irritation. Ingestion: possible nausea. |
| EMERGENCY AND FIRST AID PROCEDURES: Eyes: flush for 15 min. with water. Skin: wash with soap and water. Inhalation: remove to fresh air. Ingestion: do not induce vomiting; give lots of water to a conscious person. Call Doctor |

SECTION VI - REACTIVITY DATA

| | | | |
|---|----------------|---|---|
| STABILITY | UNSTABLE | | CONDITIONS TO AVOID: Elevated temperatures produce decomposition |
| | STABLE | X | |
| INCOMPATIBILITY (materials to avoid): Strong oxidizing and reducing agents, strong alkalies. Iron and zinc catalyze deterioration | | | |
| HAZARDOUS DECOMPOSITION PRODUCT: Combustion can produce carbon-dioxide and monoxide, hydrogen chloride, incompletely burned hydrocarbon products, oxides of sulfur & nitrogen, aldehydes, & traces of hydrogen sulfide. | | | |
| HAZARDOUS POLYMERIZATION: | MAY OCCUR | | CONDITIONS TO AVOID: NA |
| | WILL NOT OCCUR | X | |

SECTION VII - SPILL OR LEAK PROCEDURES

| |
|---|
| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Clean up promptly by vacuum or absorbent material. Prevent discharge to streams or sewage systems; report if required. |
| WASTE DISPOSAL METHOD: Transport in DOT-approved container to EPA-approved treatment, storage, and disposal facility. Follow local, State & Federal disposal regulations. |

SECTION VIII - SPECIAL PROTECTION INFORMATION

| | | |
|---|--|--------------------------------|
| RESPIRATORY PROTECTION (specify type): Normally not needed. For oil-type mist, use NIOSH-listed respirator. | | |
| VENTILATION: Local-mechanical | LOCAL EXHAUST (Specify Rate): Adequate to avoid fumes and oil mists | SPECIAL: Not required normally |
| | MECHANICAL (General) (Specify Rate): | OTHER: |
| PROTECTIVE GLOVES: Freshly washed cotton or rubber, nitrile | EYE PROTECTION: Chemical goggles or full faceshield | |
| OTHER PROTECTIVE EQUIPMENT: Clean clothes Apron or chemical suit where splashing may occur | | |

SECTION IX - SPECIAL PRECAUTIONS

| |
|---|
| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a dry place. Vent vapors to open area if stored above 100°F. Don't store near food or in zinc or iron containers. |
| OTHER PRECAUTIONS: Chlorinated Paraffin will darken at elevated temperatures. Avoid mist and vapor; use with adequate ventilation & exhaust of work area. |

ADDITIONAL INFORMATION

| | |
|--|---|
| DOT: No hazardous substance No hazard class It# 155250 Class 65 | UN or NA#: Not applicable Freight Classification: Chlorinated paraffin No DOT ID# |
| SARA: Not considered to be subject to Title III | |
| TSCA: All components required to be listed on the inventory are listed. | |
| IARC-NTP-OSHA: Neither the mixture nor any component is listed as a carcinogen or suspected carcinogen. | |
| Ozone-Depleting Substance: No 1,1,1-Trichloroethane (methyl chloroform) or other ozone-depleting substance No 5/15/93 labeling required | |
| California Prop. 65 Material: None | |
| Note: Although no exposure limits are established, observe ACGIH-OSHA TWA for oil mists: 5Mg/meter ³ . Use with adequate local ventilation and exhaust devices. | |



317 ROLYN PLACE, ARCADIA, CALIFORNIA 91007-2838
Phone: (323) 681-2551 (800) 423-1505
Emerg: Chemtrec - (800) 424-9300

Prepared: 2/24/93 Updated: 11/07/94
Updated: 3/04/93 Updated: 11/04/96
Updated: 7/15/93 Updated: 07/25/97
Updated: 02/29/00 Updated: 07/22/05

by Dr. Robert E. Pratt,
consulting chemist

AVON, OH 44011
TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

Page 01 of 05

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite Epoxy Gel
Item number: Resin (A) Part of kit: 01-32427
Product Type: Epoxy resin

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | CAS Number | % | Exposure Limits |
|--|-------------|--------|---|
| Epoxy resin | Proprietary | 40-100 | Not established. |
| Epoxy resin | Proprietary | 40-100 | Not established. |
| Silica, amorphous, fumed crystalline-free | 112945-52-5 | 1-5 | 6 mg/m3 ACGIH TLV TWA 10 mg/m3 ACGIH TWA OSHA PEL 3 mg/m3 TWA respirable dust |

3. HAZARDS IDENTIFICATION

****EMERGENCY OVERVIEW****

PHYSICAL STATE:Liquid. COLOR:Clear.

WARNING! MAY CAUSE ALLERGIC SKIN REACTION.
MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE EYE, SKIN, AND RESPIRATORY TRACT IRRITATION.

Potential Health Effects

Eye:

Moderate eye irritation. Redness. Excess tearing.

Skin:

Allergic skin reaction. Itching. Rash. Moderate skin irritation.
Redness.

Ingestion:

May be harmful if swallowed.

Inhalation:

Mild respiratory tract irritation. May cause irritation to nose and throat.
Vapors may cause headaches, nausea, dizziness and respiratory tract
irritation.

Conditions Aggravated by Exposure:

Respiratory disorders. Skin disorders. Eye disorders. Skin allergies.

Chronic:

Detailed information provided in section 11.

AVON, OH 44011
TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

Page 02 of 05

Product Name: Loctite Epoxy Gel
Item No.: Resin (A) 01-32427

4. FIRST AID MEASURES

Eye:

Immediately flush eyes with plenty of water for at least 15 minutes.
Get medical attention.

Skin:

Immediately flush skin with plenty of water (using soap, if available)
for at least 15 minutes. Remove contaminated clothing and shoes. Wash
clothing before reuse. Thoroughly clean shoes before reuse. Get
medical attention if symptoms occur.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel.
Never give anything by mouth to an unconscious person. Get medical
attention.

Inhalation:

Remove to fresh air. If symptoms develop and persist, get medical
attention.

Note to Physician:

None.

5. FIRE FIGHTING MEASURES

Flash Point:

CLOSED CUP : Greater than 149°C (300°F)

Extinguishing Media:

In case of fire, use water spray (fog), foam, dry chemicals, or CO2.

Flammable Limits:

Not available.

Special Fire Fighting Procedures:

Fire fighters should wear positive pressure self-contained breathing
apparatus (SCBA) and full turnout gear.

Hazardous Combustion Products:

Oxides of carbon. Aldehydes. Phenolics. Irritating organic fragments.

Unusual Fire or Explosion Hazards:

None.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak:

Soak up with inert absorbent. Store in closed container until
disposal.

7. HANDLING AND STORAGE

Handling:

Do not swallow. Avoid contact with eyes. Avoid breathing vapor or
mist. Avoid contact with skin and clothing. Wash thoroughly after
handling.

AVON, OH 44011
TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

Page 03 of 05

Product Name: Loctite Epoxy Gel
Item No.: Resin (A) 01-32427

Storage:

Keep container tightly closed. Keep in a cool and well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use local exhaust ventilation if the potential for airborne exposure exists.

Eye/Face Protection:

Chemical splash goggles or safety glasses with side shields.

Skin Protection:

Use chemical resistant, impermeable gloves.

Respiratory Protection:

Use NIOSH approved respirator if there is potential to exceed any exposure limit(s).

See Section 2 COMPOSITION/INFORMATION ON INGREDIENTS for exposure limits

9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Translucent clear.
Material State: Liquid.
Odor: None.
Boiling point: Greater than 149°C (300°F)
pH: Not applicable.
Solubility in Water: slight
Specific gravity: 1.12
VOC: 0.113 g/l (value of resin and hardener together)
Vapor Pressure: Less than 5 mm Hg at 26.7°C (80°F)
Vapor density: >1 (Air = 1)
Evaporation Rate: <1 compared to Butyl acetate.

10. STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to Avoid:

Excessive heat. Storage with incompatible materials.

Incompatibility:

Strong acids. Strong Bases. Strong oxidizers. Amines. Mercaptans.

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

None known

AVON, OH 44011
TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

Product Name: Loctite Epoxy Gel
Item No.: Resin (A) 01-32427

11. TOXICOLOGY INFORMATION

Product Toxicology Data:
Not available.

| Ingredient | NTP | Carcinogen | |
|-------------------|-----|------------|------|
| | | IARC | OSHA |
| Epoxy resin | No | No | No |
| Epoxy resin | No | No | No |
| Silica, amorphous | No | No | No |

Key to abbreviations:
Not applicable.

| Ingredient | Health Effects/Target organs |
|-------------------|------------------------------|
| Epoxy resin | Allergen. Irritant. |
| Epoxy resin | Allergen. Irritant. |
| Silica, amorphous | Nuisance dust. |

12. ECOLOGICAL INFORMATION

Ecological Information:
None known

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal:
Dispose according to EPA and local governmental regulations.
EPA Hazardous Waste Number:
Material as supplied is non-hazardous under RCRA (U.S. Federal) regulations.

14. TRANSPORTATION INFORMATION

Domestic Transportation (D.O.T. 49 CFR)-GROUND

Shipping Description:
Not regulated.
Exceptions:
Not applicable.

International Air Transportation (ICAO/IATA)-
Shipping description:
Not regulated.
Exceptions:
Not applicable.

AVON, OH 44011
TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

Product Name: Loctite Epoxy Gel
Item No.: Resin (A) 01-32427

Marine pollutant:
None known

15. REGULATORY INFORMATION

SARA Title III Section 313 Chemicals:
None.

SARA Title III Section 311/312:
Immediate health hazard.

Toxic Substances Control Act:
All components are listed on or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA Section 12(b) annual:
None.

TSCA Section 12(b) one time:
None.

Canadian Inventory Status:
All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

California Proposition 65:
No California Proposition 65 listed chemicals are know to be present.

16. OTHER INFORMATION

HMIS Code:
Health: 2
Flammability: 1
Reactivity: 0
Protective Equipment: See Section 8.

Prepared by:
Company: Regulatory Affairs
(24hr.) Phone: (440) 937-7000

AVON, OH 44011
 TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

Page 01 of 06

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite Epoxy Gel
 Item number: Hardener (B) Part of kit: 01-32427
 Product Type: Epoxy hardener

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | CAS Number | % | Exposure Limits |
|---|-------------|--------|---|
| Polymercaptan hardener | Proprietary | 60-100 | None |
| N-(2-Aminoethyl)piperazine | 140-31-8 | 5-10 | None |
| Triethylaminetetramine | 112-24-3 | 5-10 | None |
| Phenol, 2,4,6- tris[(di- methylamino)methyl] | 90-72-2 | 5-10 | None |
| Silica, amorphous, fumed crystalline-free | 112945-52-5 | 1-5 | 6 mg/m3 ACGIH TLV TWA 10 mg/m3 ACGIH TWA OSHA PEL 3 mg/m3 TWA respirable dust |
| Aminoethylethanolamine | 111-41-1 | 1-5 | None |
| Heptakis(dipropylene- glycol)triphosphate | 13474-96-9 | 1-5 | None |
| Diethylaminetriamine | 111-40-0 | 1-5 | 1 ppm ACGIH TWA (skin) |

3. HAZARDS IDENTIFICATION

****EMERGENCY OVERVIEW****

PHYSICAL STATE:Liquid. COLOR:Opaque. ODOR: None.

DANGER! CAUSES EYE AND SKIN BURNS.
 MAY BE HARMFUL IF ABSORBED THROUGH SKIN.
 MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.
 MAY CAUSE RESPIRATORY TRACT IRRITATION.

Potential Health Effects

Eye:

Causes eye burns. Severe eye irritation. Redness. Tissue damage.

Skin:

May cause skin burns. Allergic skin reaction. Harmful if absorbed through skin. Rash. Redness. Tissue damage.

Ingestion:

May be harmful if swallowed. May cause burns of mouth and throat if swallowed.

Inhalation:

Allergic respiratory reaction. May cause respiratory tract irritation. May cause irritation to nose and throat. Lung damage. Respiratory tract burns.

AVON, OH 44011
TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

Page 02 of 06

Product Name: Loctite Epoxy Gel
Item No.: Hardener (B) 01-32427

Conditions Aggravated by Exposure:

Respiratory disorders. Skin disorders. Eye disorders. Asthma.

Chronic:

Detailed information provided in section 11.

4. FIRST AID MEASURES

Eye:

Immediately flush eyes with plenty of water for at least 15 minutes.
Get medical attention.

Skin:

Immediately flush skin with plenty of water (using soap, if available)
for at least 15 minutes while removing contaminated clothing and shoes.
Immediately flush skin with plenty of water (using soap, if available).
Remove contaminated clothing and shoes. Wash clothing before reuse.
Thoroughly clean shoes before reuse. Get medical attention
immediately.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel.
Never give anything by mouth to an unconscious person. Get medical
attention.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration.
If breathing is difficult, give oxygen. Get medical attention.

Note to Physician: None.

5. FIRE FIGHTING MEASURES

Flash Point:

CLOSED CUP : Greater than 200F (93C). Tagliabue.

In case of fire, use water spray (fog), foam, dry chemicals, or CO2.

Extinguishing Media:

Flammable Limits:

Not available.

Special Fire Fighting Procedures:

Fire fighters should wear positive pressure self-contained breathing
apparatus (SCBA) and full turnout gear.

Hazardous Combustion Products:

Oxides of nitrogen. Oxides of carbon. Ammonia. Amines. Nitric acid.
Nitrosamines. Irritating organic fragments.

Unusual Fire or Explosion Hazards:

Avoid the use of a stream of water to control fires since frothing may
occur. Closed containers may rupture (due to build up of pressure)
when exposed to extreme heat. Use water spray cautiously to keep
fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak:

Soak up with inert absorbent. Store in closed container until
disposal.

AVON, OH 44011
TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

Page 03 of 06

Product Name: Loctite Epoxy Gel
Item No.: Hardener (B) 01-32427

7. HANDLING AND STORAGE

Handling:

Do not swallow. Do not get on skin. Avoid contact with eyes, skin, and clothing. Do not breathe vapor or mist. Do not get in eyes. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Storage:

Keep container tightly closed. Keep in a cool and well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use local exhaust ventilation if the potential for airborne exposure exists.

Eye/Face Protection:

Chemical splash goggles or safety glasses with side shields. Full face shield should be used if the potential exists for splashing or spraying of product.

Skin Protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Butyl gloves. Neoprene gloves. Nitrile gloves.

Respiratory Protection:

Use NIOSH approved respirator if there is potential to exceed any exposure limit(s).

See Section 2 COMPOSITION/INFORMATION ON INGREDIENTS for exposure limits

9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Opaque.
Material State: Liquid.
Odor: None.
Boiling point: Greater than 300°F (149°C)
pH: Not applicable.
Solubility in Water: Not available
Specific gravity: 1.04
VOC: 0.113 g/l (value for resin and hardener together)
Vapor Pressure: Less than 5 mm Hg at 20 °C (68°F)
Vapor density: >1 (Air = 1)
Evaporation Rate: <1 compared to Butyl acetate.

10. STABILITY AND REACTIVITY

Stability:

Stable.

AVON, OH 44011

TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

Page 04 of 06

Product Name: Loctite Epoxy Gel
 Item No.: Hardener (B) 01-32427

Conditions to Avoid:

None known

Incompatibility:

Oxidizing agents, Alkalis. Chlorinated rubber. Reaction with epoxy resins and isocyanates in large amounts or under uncontrolled conditions releases considerable heat and may release acrid fumes.

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

None known

11. TOXICOLOGY INFORMATION

Product Toxicology Data:

Not available.

| Ingredient | Carcinogen | | |
|---|------------|------|------|
| | NTP | IARC | OSHA |
| Polymercaptan hardener | No | No | No |
| N-(2-Aminoethyl)piperazine | No | No | No |
| Triethylaminetetramine | No | No | No |
| Phenol, 2,4,6- tris[(di- methylamino)methyl] | No | No | No |
| Silica, amorphous, fumed crystalline-free | No | No | No |
| Aminoethylethanolamine | No | No | No |
| Heptakis(dipropylene- glycol)triphosphate | No | No | No |
| Diethylaminetriamine | No | No | No |

Ingredient

Health Effects/Target organs

| | |
|---|--|
| Polymercaptan hardener | Not available. |
| N-(2-Aminoethyl)piperazine | Irritant |
| Triethylaminetetramine | Allergen, Developmental, Irritant, Mutagen |
| Phenol, 2,4,6- tris[(di- methylamino)methyl] | Allergen, Irritant |
| Silica, amorphous, fumed crystalline-free | Nuisance dust. |
| Aminoethylethanolamine | Allergen, Irritant |
| Heptakis(dipropylene- glycol)triphosphate | No data |
| Diethylaminetriamine | Allergen, Eyes, Irritant |

AVON, OH 44011
TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

Product Name: Loctite Epoxy Gel
Item No.: Hardener (B) 01-32427

12. ECOLOGICAL INFORMATION

Ecological Information:
None known

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal:
Dispose according to EPA and local governmental regulations.
EPA Hazardous Waste Number:
Material as supplied is non-hazardous under RCRA (U.S. Federal) regulations.

14. TRANSPORTATION INFORMATION

Domestic Transportation (D.O.T. 49 CFR)-GROUND

Shipping Description:
Corrosive liquid, basic, organic, n.o.s. (Triethylenetetramine / aminoethylpiperzine) Class 8 UN 3267 PG II

Exceptions:
(Not more than one litre) Consumer Commodity ORM-D

International Air Transportation (ICAO/IATA)-

Shipping description:
Corrosive liquid, basic, organic, n.o.s. (Triethylenetetramine / aminoethylpiperzine) Class 8 UN 3267 PG II

Water Transportation (IMO/IMDG)

Shipping description:
Corrosive liquid, basic, organic, n.o.s. (Triethylenetetramine / aminoethylpiperzine) Class 8 UN 3267 PG II

Marine pollutant:
Nonylphenol

15. REGULATORY INFORMATION

SARA Title III Section 313 Chemicals:
None above the reporting minimus.

SARA Title III Section 311/312:
Immediate health hazard.

AVON, OH 44011
TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

Toxic Substances Control Act:

All components are listed on or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA Section 12(b) annual:

None.

TSCA Section 12(b) one time:

None.

Canadian Inventory Status:

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

WHMIS hazard class: E, D2A, D2B

California Proposition 65:

This product contains a chemical known to the State of California to cause cancer.

16. OTHER INFORMATION

HMIS Code:

Health: 3
Flammability: 1
Reactivity: 1
Protective Equipment: See Section 8.

Prepared by:

Company: Regulatory Affairs
(24hr.) Phone: (440) 937-7000

STICK EASE SEAM ADHESIVE 209454

MATERIAL SAFETY DATA SHEET

Section 1

Manufacturer's Name: Roman Adhesives, Inc.
824 State Street
Calumet City, Illinois 60409

Emergency Assistance:
1-800-488-6117
HMIS Hazard Rating:

FIRE=0 Least=0
HEALTH=1 Slight=1
REACTIVITY=1 Moderate=2
Date: Mar 29, 1995 PERSONAL PROTECTION=B High=3
Revised: Sep 28, 1999 Extreme=4

Trade name and Synonyms:

STICK EASE SEAM ADHESIVE 209454

Chemical Name and Synonyms: Copolymer adhesive

Chemical Family: Synthetic resin emulsion

Section 2-Hazardous Ingredients/Identity Information

| CAS No. | Chemical Name(s) | OSHA PEL | ACGIH TLV | max % |
|---------|--------------------------|----------|-----------|-------|
| | No Hazardous Ingredients | | | |

Section 3-Physical/Chemical Characteristics

Appearance and Odor: Opaque white liquid, slight acrid odor

Specific Gravity(water=1): 1.07

Percent Solids by Weight:

by Volume:

Solubility in Water: Miscible in all proportions

Boiling Point: 212F

Vapor Density: Same as water

Vapor Pressure: Same as water

Evaporation Point: Same as water

Melting Point: n.a.

Volatile Organic Compounds (VOC, less water): max 50 g/l; 0.42 lb/gal

Section 4-Fire and Explosion Hazard Data

Flash Point(methods used) n.a.

Extinguishing Methods:

Special Fire Fighting Procedures:
Self contained breathing apparatus should be worn in fighting all fires involving general chemicals.
Unusual Fire and Explosion Hazards: None

Section 5-Health Hazard Data

Carcinogenicity: NTP:no IARC:no OSHA regulated: no

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December 21, 1999

STICK EASE SEAM ADHESIVE 209454

Overexposure--Under current OSHA criteria this product is considered non-hazardous.

Emergency First Aid Procedures

Eyes- Flush with water for 15 minutes, seek medical attention

Skin- Wash from skin at first opportunity.

Inhalation- No hazardous volatiles

Ingestion- Give water to drink if conscious, seek medical attention. Do not give anything by mouth to an unconscious person.

Section 6-Reactivity Data

This product is stable and compatible with all compounds that are compatible with water and water solutions. Hazardous polymerization does not occur.

Section 7-Precautions for Safe Handling and Use

Steps to be taken in case the product is released or spilled:

Small spills of 1-2 gallons or less may be diluted 50:1 with water and washed down the drain.

Large spills should be recovered as much as possible and disposed of as non-hazardous liquid waste. Consult Federal, State and Local regulations. Spilled adhesive may present a slip hazard and personnel should be cautious during cleanup.

Section 8-Control Measures

Respiratory protection is not usually required, however any room where this product is used should have good ventilation, i.e., open windows, exhaust fans, etc. A good, normal precaution is to wear protective gloves and glasses. No other protection equipment is necessary.

Section 9- Special Precautions

Store at moderate temperatures (50-100 F). Protect from freezing. Keep out of the reach of children. Keep container closed when not in use.

SUPPLEMENTAL INFORMATION

Waste Disposal

This product can handled as a non-hazardous industrial waste.

REGULATORY INFORMATION

Workplace Classifications

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

This product is not a "controlled product" under the Canadian Environmental Act.

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STICK EASE SEAM ADHESIVE 209454

Workplace Hazardous Materials Information System (WHMIS).

Transportation Classifications

US DOT Shipping Class --- 60

US DOT Description --- Adhesive Paste NOI

Emergency Planning and Community Right to Know (SARA Title 3)

Section 311/312 Categorizations (40CFR 370)

This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

Section 313 Information (40CFR 372)

This product does not contain a chemical which is listed in Section 313 above de minimis concentrations.

CERCLA Information (40CFR 302.4)

Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation and Liability Act or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act, Title III Section 304.

RCRA Information

When this product becomes a waste, it is classified as a non-hazardous waste under criteria of the Resource Conservation and Recovery Act (40CFR 261).

Chemical Control Law Status

All components of this product are listed on the US-EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

All components of this product are listed on the Canadian Environmental Protection Act Domestic Substances List (CEPA-DSL).

Material Safety Data Sheet

PC METAL EPOXY PUTTY

MSDS No. 50505-08

Date of Preparation: 5-5-2005

Revision: 6

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: PC METAL EPOXY PUTTY

Chemical Formula: Mixture

CAS Number: Mixture

General Use: Adhesive

Manufacturer: Protective Coating Company, 221 S. Third St., Allentown, PA 18102-4922, Phone (610)432-3543, FAX (610)432-5043 (9AM-5PM EST).

Section 2 - Composition / Information on Ingredients

| Ingredient Name | CAS Number | | % | |
|--------------------------------|------------|--|-----------|--|
| Bisphenol A Epoxy Resin | 25068-38-6 | | 10 – 30 | |
| Tri(dimethylaminomethyl)phenol | 90-72-2 | | 0.5 – 1.5 | |
| Crystalline silica | 14808-60-7 | | 7 – 13 | |

| Ingredient | OSHA PEL | | ACGIH TLV | | NIOSH REL | | NIOSH IDLH |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | TWA | STEL | TWA | STEL | TWA | STEL | |
| Bisphenol A Epoxy resin | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. |
| Tri(dimethylamino methyl)phenol | None estab. | none estab. | None estab. | none estab. | None estab. | None estab. | None estab. |
| Crystalline silica | 0.10 mg/m3 | none estab. | none estab. | 0.10 mg/m3 | none estab. | None estab. | none estab. |

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Warning! Respirable crystalline silica (quartz) is classified as a probable carcinogen. The crystalline silica present in this product is encapsulated in the epoxy resin and could only be liberated by sanding or abrading, and then not as pure crystalline silica. Appropriate precautions, however, should be taken, if the product is sanded or abraded to preclude personnel from breathing the dust.

HMIS
H 1
F 1
R 0
PPE †B
†Sec. 8

Potential Health Effects

Acute Effects

Inhalation: None.

Eye: Possible irritant and sensitizer.

Skin: Possible irritant and sensitizer.

Ingestion: Irritation of intestinal tract.

Section 4 - First Aid Measures

Inhalation: Remove to fresh air.

Eye Contact: Flush with water, consult a physician.

Skin Contact: Wash with soap and water.

Ingestion: Seek medical advice

Section 5 - Fire-Fighting Measures

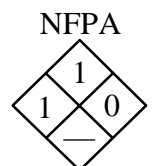
Flash Point: N/A.

Flammability Classification: IIIB

Extinguishing Media: Water spray, foam, CO2, dry chemicals.

Hazardous Combustion Products: CO, Aldehydes, acids, oxides of sulfur and nitrogen may be formed.

Fire-Fighting: Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH- approved positive pressure self contained breathing apparatus (SCBA) and full protective clothing.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Dispose of in normal manner.

Disposal: Incinerate in furnace or bury in landfill according to applicable regulations; not a hazardous waste.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: None.

Storage Requirements: Storage temperature: <90°F(32°C). Store in a cool, dry, well ventilated area.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 8 - Exposure Controls / Personal Protection

Ventilation: Provide general or local exhaust ventilation systems if product is sanded or ground.

Respiratory Protection: Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator.

Protective Clothing/Equipment: Wear chemically protective gloves to prevent skin contact. Wear protective eyeglasses or chemical safety goggles.

Section 9 - Physical and Chemical Properties

Form: Putty.

Appearance: Aluminum stick.

Odor: Mercaptan.

Solubility (in water): insoluble in water.

% Volatile: < 1%

Specific Gravity (H₂O=1, at 4 °C): 2.18

VOC: <1%

pH: >8

Section 10 - Stability and Reactivity

Stability: PC METAL EPOXY PUTTY is stable.

Polymerization: Hazardous polymerization cannot occur.

Section 11- Toxicological Information

Toxicity Data:

| Lethal Dose Information(mg/kg) | | Oral | Skin | Inhale | LC50 |
|--------------------------------|--|--------------|--------------------------|---------|---------|
| Bisphenol A Epoxy Resin | | 11400.00 rat | 20000 rabbit | No data | No data |
| Tri(dimethylaminomethyl)phenol | | 1635.00 rat | 1350.00 rabbit estimated | No data | No data |
| Crystalline silica | | No data | No data | No data | No data |

Section 12 - Ecological Information

Ecotoxicity: No data.

Environmental Fate: No data.

Environmental Degradation: No data.

Section 13 - Disposal Considerations

Disposal: Incinerate in furnace or bury in landfill according to applicable regulations; not a hazardous waste.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not regulated.

Shipping Symbols: Not applicable.

Hazard Class: Non hazardous.

ID No.: Not applicable.

Packing Group: Not determined.

Label: Not required.

Special Provisions (172.102):

None.

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261.??): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112

CERCLA Reportable Quantity (RQ), Not listed.

SARA 311/312 Codes: None.

SARA Toxic Chemical (40 CFR 372.65): Not listed.

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed.

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance, none

Right-to-know: The non-hazardous ingredients in this product subject to the Pennsylvania, New Jersey, and/or Massachusetts right-to-know laws are:

| CAS | NAME |
|--------------|--------------------------------------|
| 144807-96-6 | Magnesium Silicate Hydrate |
| Trade Secret | Polyether Polymercaptan |
| 65997-17-3 | Soda Lime Borosilicate Glass |
| 7439-89-6 | Iron/silicon/titanium/aluminum alloy |

Section 16 - Other Information

Storage Requirements: Storage temperature: <90°F(32°C). Store in a cool, dry, well ventilated area.

Personal Hygiene: Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities.

Wash contaminated goggles, faceshield, and gloves.

Prepared By: Charles Moloney

Revision Notes:

Disclaimer: The above information is given in good faith. No warranty expressed or implied is made.

 | M A T E R I A L S A F E T Y D A T A S H E E T |

 | SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION |

THIS MSDS IS OFFERED IN CANADIAN-FRENCH UPON REQUEST.

ON PEUT DEMANDER CETTE MSDS A LA ALNGUE FRANCAISE-CANADIENNE.

PRODUCT NAME : 3.2.1 SPACKLE WITH DRYDEX
 UPC NUMBER : 7079812326, 7079812328, 7079812330, 7079871160,
 7079871164
 PRODUCT USE/CLASS : Latex Spackling

MANUFACTURER:
 DAP INC. DAP CANADA CORP.
 2400 BOSTON STREET 475 FINCHDENE SQUARE UNIT 5
 BALTIMORE, MD 21224 SCARBOROUGH, ONTARIO M1X 1B7

24 HOUR EMERGENCY:
 TRANSPORTATION: 1-800-535-5053 (352-323-3500)
 MEDICAL : 1-800-327-3874 (513-558-5111)

PREPARE DATE : 06/17/1999 GENERAL INFORMATION:
 REVISION NO. : 1 DAP INC. : 1-888-DAP-TIPS (1-888-327-8477)
 REVISION DATE: 05/15/2000

 | SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS |

| ITEM | CHEMICAL NAME | CAS NUMBER | WT/WT % RANGE |
|------|----------------------------|------------|---------------|
| 01 | Calcium Carbonate | 1317-65-3 | 65.0-70.0 % |
| 02 | Crystalline silica | 14808-60-7 | 0.1-1.0 % |
| 03 | Polygorskite (Attapulгите) | 12174-11-7 | 1.0-5.0 % |

----- EXPOSURE LIMITS -----

| ITEM | ACGIH | | OSHA | | COMPANY | SKIN |
|------|-----------|----------|-----------|-------------|---------|------|
| | TLV-TWA | TLV-STEL | PEL-TWA | PEL-CEILING | TLV-TWA | |
| 01 | 10 mg/m3 | N.E. | 15 mg/m3 | N.E. | N.E. | NO |
| 02 | .05 mg/m3 | N.E. | 0.1 mg/m3 | N.E. | N.E. | NO |
| 03 | N.E. | N.E. | N.E. | N.E. | N.E. | NO |

(See Section 16 for abbreviation legend)

Remaining ingredients are not considered hazardous per the OSHA Hazard Communication Standard.

Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); limits may vary between states.

(Continued on Page 2)

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: CAUTION! Removal of this product after use will result in the generation of dust. If dry-sanded, exposure to dust may result in build-up of material in eyes, ears, nose, and mouth which may cause irritation.

POTENTIAL HEALTH EFFECTS:

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May dry skin.

EFFECTS OF OVEREXPOSURE - INHALATION: Vapor may irritate nose and upper respiratory tract.

EFFECTS OF OVEREXPOSURE - INGESTION: None known.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Inhalation of dust may result in pulmonary and respiratory damages. Prolonged or repeated inhalation of dust may cause lung damage. Crystalline silica dust and Polygorskite fibers are considered a suspect human carcinogen by the IARC. Risk to one's health depends on level and duration of exposure.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: Asthma and asthma-like conditions may worsen from prolonged and repeated exposure.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush with large quantities of water until irritation subsides.

SKIN CONTACT: Wash with soap and water.

INHALATION: Remove to fresh air.

INGESTION: DO NOT INDUCE VOMITING.

COMMENTS: Call 1-800-327-3874 if irritation persists or complications arise from any of the above exposure.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: >200 F
(SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.A.
UPPER EXPLOSIVE LIMIT: N.A.

(Continued on Page 3)

SECTION 5 - FIRE FIGHTING MEASURES

AUTOIGNITION TEMPERATURE:

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

SPECIAL FIREFIGHTING PROCEDURES: Use water spray to cool exposed surfaces.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Scrape up dried material and place into containers.

SECTION 7 - HANDLING AND STORAGE

HANDLING INFORMATION: KEEP OUT OF REACH OF CHILDREN. Keep containers away from excessive heating and freezing. Avoid skin and eye contact. Do not inhale dusts of this product.

STORAGE INFORMATION: Store away from caustics and oxidizers. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Do not store at temperatures above 120 degrees F(49 C).

OTHER PRECAUTIONS: None.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: If dry-sanding, provide sufficient mechanical ventilation to maintain exposure below PEL and TLV.

RESPIRATORY PROTECTION: If 8 hour exposure limit or value is exceeded for any component, use an approved NIOSH/OSHA respirator. Consult your safety equipment supplier and the OSHA regulation, 29 CFR 1910.134 for respirator requirements. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Use an approved NIOSH/OSHA respirator if dry sanded.

EYE PROTECTION: Safety glasses with side shields recommended.

SKIN PROTECTION: Gloves recommended for repeated or prolonged contact with skin.

(Continued on Page 4)

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

OTHER PROTECTIVE EQUIPMENT: None.

HYGIENIC PRACTICES: Remove contaminated clothing and wash before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE : 210-220 F (99-104 C) VAPOR DENSITY: Is lighter than air
ODOR : Mild Odor
APPEARANCE : Opaque paste EVAPORATION RATE: Is slower than Butyl
SOLUBILITY IN H2O : Soluble Acetate
SPECIFIC GRAVITY : 1.8690
VAPOR PRESSURE : 17.5 mm Hg @68F (20 C)
PHYSICAL STATE : Paste

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Strong oxidizers and caustics.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e. COx,
NOx

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 - ECOLOGICAL INFORMATION

No Information.

(Continued on Page 5)

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT/DISPOSAL: This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulations, 40 CFR Section 261. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA WASTE CODE - If discarded (40 CFR 261): None.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by D.O.T.

DOT HAZARD CLASS: NONE

DOT UN/NA NUMBER: NONE PACKING GROUP: NONE

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

| ----- | CHEMICAL NAME | ----- | CAS NUMBER | ----- | WT/WT % RANGE |
|---|---------------|-------|------------|-------|---------------|
| No SARA Section 313 components exist in this product. | | | | | |

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

| ----- | CHEMICAL NAME | ----- | CAS NUMBER |
|------------------------------|---------------|-------|------------|
| No information is available. | | | |

(Continued on Page 6)

SECTION 15 - REGULATORY INFORMATION

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

| ----- CHEMICAL NAME ----- | CAS NUMBER |
|---------------------------|-------------------|
| Water | 7732-18-5 |
| Vinyl Acetate Polymer | TSRN-618608-5057P |

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

| ----- CHEMICAL NAME ----- | CAS NUMBER |
|---------------------------|-------------|
| Water | 7732-18-5 |
| Vinyl Acetate Polymer | proprietary |

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer:

| ----- CHEMICAL NAME ----- | CAS NUMBER |
|---------------------------|------------|
| Crystalline Silica | 14808-60-7 |
| Polygorskite | 12174-11-7 |

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: Not regulated.

(Continued on Page 7)

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 06/17/1999

VOC less water, less exempt solvent: 30-40 g/L
VOC material : 10-20 g/L

LEGEND: ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED
PEL - PERMISSIBLE EXPOSURE LIMIT
NTP - NATIONAL TOXICOLOGY PROGRAM
SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986
STEL - SHORT TERM EXPOSURE LIMIT
TLV - THRESHOLD LIMIT VALUE(8 HR. TIME WEIGHTED AVERAGE OR TWA)
VOC - VOLATILE ORGANIC COMPOUND
NJRTK - NEW JERSEY RIGHT TO KNOW LAW
N.D. - NOT DETERMINED

MSDS# 10420

This data is offered in good faith as typical values and not as a product specification. No warranty either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

< End OF MSDS >

The Valspar Corporation

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product ID: 011.0002400
Product Name: GOOF OFF
Product Use: Paint product.
Print date: 17/Nov/2006
Revision Date: 31/Aug/2005

Company Identification

The Valspar Corporation - Architectural Coatings Division
1191 Wheeling Road
Wheeling, IL 60090
Manufacturer's Phone: 1-847-520-8580

24-Hour Medical Emergency Phone: 1-888-345-5732

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

| Common Name CAS-No. | Approx. Weight % | Chemical name |
|---|---------------------|------------------------------------|
| XYLENE 1330-20-7 | 75 - 80 | Xylenes (o-, m-, p- isomers) |
| ETHYLBENZENE 100-41-4 | 15 - 20 | Ethyl benzene |
| DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3 | 1 - 5 | Diethylene glycol monomethyl ether |
| TOLUENE 108-88-3 | 1 - 5 | Toluene |

If this section is blank there are no hazardous components per OSHA guidelines.

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure:

Inhalation
Ingestion
Skin absorption

Emergency Overview:

This section not in use.

This product contains ingredients that may contribute to the following potential acute health effects:

Inhalation Effects:

Harmful if inhaled. May affect the brain, nervous system, or respiratory system, causing dizziness, headache, nausea or respiratory irritation.

Eye Contact:

Corneal Injury/eye damage.

Skin Contact:

May cause moderate skin irritation.

Acute Ingestion:

None known

Other Effects:

May cause central nervous system depression. May cause liver damage. May cause kidney damage.

This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Possible birth defects hazard. Contains ingredients which may cause birth defects based on animal data. May cause kidney damage. May cause liver damage.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

4. FIRST AID MEASURES

Inhalation:

If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

Eye Contact:

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact:

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention.

Ingestion:

If swallowed, do not induce vomiting. Give large quantities of water. If available, give several glasses of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately. If swallowed, get medical attention immediately.

Medical conditions aggravated by exposure: Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

| | |
|----------------------------------|---|
| Flash point (Fahrenheit): | 80° F (27° C) TCC/PM |
| Lower explosive limit: | 1 % |
| Upper explosive limit: | 7 % |
| Autoignition temperature: | Not available. ° F (° C) |
| Sensitivity to impact: | No. |
| Sensitivity to static discharge: | Subject to static discharge hazards. Please see bonding and grounding information in Section 7. |
| Hazardous combustion products: | See Section 10. |

Unusual fire and explosion hazards:

None known.

Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:

Use water spray to cool nearby containers and structures exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:

Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid contact with eyes.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:

Keep away from heat, sparks, and flames. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment

Eye and face protection:

Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

Skin protection:

Appropriate chemical resistant gloves should be worn. To prevent skin contact wear protective clothing covering all exposed areas.

Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation

Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

| Common Name CAS-No. | Approx. Weight % | TWA (final) | Ceilings limits (final) | Skin designations |
|--------------------------|---------------------|-------------------------------|-------------------------|-------------------|
| XYLENE 1330-20-7 | 75 - 80 | 435 mg/m ³ 100 ppm | | |
| ETHYLBENZENE 100-41-4 | 15 - 20 | 435 mg/m ³ 100 ppm | | |
| TOLUENE 108-88-3 | 1 - 5 | 200 ppm | 300 ppm | |

ACGIH Threshold Limit Value (TLV's)

| Common Name CAS-No. | Approx. Weight % | TWA | STEL | Ceiling limits | Skin designations |
|------------------------|---------------------|-----|------|----------------|-------------------|
|------------------------|---------------------|-----|------|----------------|-------------------|

| | | | | | |
|--------------------------|---------|---------|---------|--|-----------------------------------|
| XYLENE 1330-20-7 | 75 - 80 | 100 ppm | 150 ppm | | |
| ETHYLBENZENE 100-41-4 | 15 - 20 | 100 ppm | 125 ppm | | |
| TOLUENE 108-88-3 | 1 - 5 | 50 ppm | | | Can be absorbed through the skin. |

If this section is blank, no information is available.

9. PHYSICAL PROPERTIES

| | |
|---|-------------------------------|
| Odor: | Normal for this product type. |
| Physical State: | Liquid |
| pH: | Not determined. |
| Vapor pressure: | 28 mmHG @ 68° F (20° C) |
| Vapor density (air = 1.0): | 4.1 |
| Boiling point: | 230° F (110° C) |
| Solubility in water: | Insoluble. |
| Coefficient of water/oil distribution: | Not determined. |
| Density (lbs per US gallon): | 7.29 |
| Specific Gravity | .87 |
| Evaporation rate (butyl acetate = 1.0): | 2 |

10. STABILITY AND REACTIVITY

| | |
|-----------------------------------|-------------------------------------|
| Stability | Stable |
| Conditions to Avoid: | None known. |
| Incompatibility: | Strong oxidizers. |
| Hazardous Polymerization: | None anticipated. |
| Hazardous Decomposition Products: | Carbon monoxide and carbon dioxide. |

Sensitivity to static discharge: Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

Mutagens:

| Common Name CAS-No. | Approx. Weight % | California Prop 65 - Developmental Toxicity | California Prop 65 - Reproductive (Male) |
|------------------------|---------------------|---|---|
| TOLUENE 108-88-3 | 1 - 5 | Listed: January 1, 1991 Developmental toxin. | |

Teratogens:

Carcinogens:

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans.

| Common Name CAS-No. | Approx. Weight % | IARC Group 1 - Human Evidence | IARC Group 2A - Limited Human Data | IARC Group 2B - Sufficient Animal Data |
|--------------------------|---------------------|----------------------------------|---------------------------------------|---|
| ETHYLBENZENE 100-41-4 | 15 - 20 | | | Monograph 77, 2000 |

| Common Name CAS-No. | Approx. Weight % | NTP Known Carcinogens | NTP Suspect Carcinogens | NTP Evidence of Carcinogenicity |
|--------------------------|---------------------|--------------------------|----------------------------|--|
| ETHYLBENZENE 100-41-4 | 15 - 20 | | | male rat-clear evidence; female rat-some evidence; male mice- some evidence; female mice-some evidence |

| Common Name CAS-No. | Approx. Weight % | OSHA Select Carcinogens | OSHA Possible Select Carcinogens | ACGIH Carcinogens |
|--------------------------|---------------------|----------------------------|-------------------------------------|---|
| ETHYLBENZENE 100-41-4 | 15 - 20 | | | Group A3 Confirmed animal carcinogen with unknown relevance to humans. |

If this section is blank, no information is available.

12. ECOLOGICAL DATA

Not available at this time.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation

Proper Shipping Name: PAINT RELATED MATERIAL
Hazard Class: 3
UN ID Number: UN1263
Packing Group: III

49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

International Air Transport Association:

Proper Shipping Name: PAINT RELATED MATERIAL
Hazard Class: 3
UN ID Number: UN1263
Packing Group: III

International Maritime Organization:

Proper Shipping Name: PAINT RELATED MATERIAL
Hazard Class: 3
Non-Bulk UN ID Number: UN1263
Packing Group: III

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

15. REGULATORY INFORMATION

| Common Name CAS-No. | Approx. Weight % | SARA 302 | SARA 313 | CERCLA RQ in lbs. |
|---|---------------------|----------|---|-------------------|
| XYLENE 1330-20-7 | 75 - 80 | | form R reporting required for 1.0% de minimis concentration | 100 |
| ETHYLBENZENE 100-41-4 | 15 - 20 | | form R reporting required for 1.0% de minimis concentration | 1000 |
| DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3 | 1 - 5 | | YES | |
| TOLUENE 108-88-3 | 1 - 5 | | form R reporting required for 1.0% de minimis concentration | 1000 |

SARA 311/312 Hazard Class:

Acute: Yes
Chronic: Yes
Flammability: Yes
Reactivity: No
Sudden Pressure: No

U.S. STATE REGULATIONS:

Pennsylvania Right To Know:

ETHYLBENZENE 100-41-4
TOLUENE 108-88-3
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3
XYLENE 1330-20-7

California Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Rule 66 status of product

Photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

TSCA Inventory:

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

HMIS Codes

Health: 2
Flammability: 3
Reactivity: 1
PPE: X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION
Trade Name: OATEY PLUMBER'S PUTTY
Product Use: Stainless fixture setting compound.
Formula: See SECTION 2
Synonyms: Putty.
Firm Name & Mailing Address: OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135, U.S.A. <http://www.oatey.com>
Oatey Phone Number: (216) 267-7100 or (800) 321-9532
Emergency Phone Numbers: For Emergency First Aid call 1-303-623-5716 COLLECT. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the US: 1-703-527-3887.
Prepared By: Corporate Director - Safety and Environmental Compliance
Preparation Date: June 10, 2005

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

| <u>INGREDIENTS:</u> | <u>%wt/wt:</u> | <u>CAS NUMBER:</u> | <u>ACGIH TLV TWA:</u> | <u>OSHA PEL TWA:</u> | <u>OTHER:</u> |
|---------------------|----------------|--------------------|-----------------------|--------------------------|---------------|
| Limestone | 60 - 90% | 1317-65-3 | 10 mg/M3 | 15 mg/M3 (Total dust) | None |
| Hydrocarbon oil | 10 - 30% | 64742-52-5 | 5 mg/M3 | 5 mg/M3 | None |
| Talc | 1 - 5% | 14807-96-6 | 2 mg/M3 | 2 mg/M3 | None |
| Clay | 1 - 5% | 68953-58-2 | 10 mg/M3 | 10 mg/M3 | None |

OSHA Hazard Classification: Not hazardous

SECTION 3 HAZARDS IDENTIFICATION
Emergency Overview:
White putty with a mild petroleum odor. May cause mechanical irritation of the eyes.

SECTION 4 FIRST AID MEASURES
CALL 1-303-623-5716 COLLECT
Skin: Wash all exposed areas with soap and water.
Eyes: As with most foreign materials, should eye contact occur, flush eyes with water until foreign matter is removed. If irritation develops, seek medical attention.
Inhalation: Not a likely route of entry.
Ingestion: **DO NOT INDUCE VOMITING.** Rinse mouth with water. Call a physician.

SECTION 5 FIRE FIGHTING MEASURES
Flashpoint / Method: Not applicable
Flammability: LEL = Not determined, UEL = Not determined
Extinguishing: Use dry chemical, CO2, or foam to extinguish fire. Cool fire exposed container with water. Water may be ineffective as an extinguishing agent.
Media: As appropriate for surrounding fire.
Special Fire Fighting Procedure:
Unusual Fire and Explosion Hazards: None
Hazardous Decomposition Products: Combustion will produce toxic and irritating vapors including carbon monoxide and carbon dioxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill or Leak Sweep up dried material and dispose of with ordinary trash.
Procedures:

SECTION 7 HANDLING AND STORAGE

Handling: No special handling required. Wash thoroughly after handling.
Use good hygiene practices.
Storage: Store in a cool, dry area.
Other: None.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Use with adequate ventilation.
Respiratory: If putty dries and becomes dusty, wear a dust respirator
Protection: during clean-up.
Skin: Gloves are not normally required.
Protection:
Eye: Safety glasses with side shields are recommended.
Protection:
Other: Eye wash should be available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not applicable
Melting Point: Not applicable
Vapor Pressure: Not determined
Vapor Density: Not determined
Volatile Components: Not determined
Solubility In Water: Negligible.
pH: Not applicable
Specific Gravity: 2.0 @ 20 Degrees C
Evaporation Rate: Not applicable
Appearance: White Putty
Odor: Petroleum odor
Will Dissolve In: Not determined
Material Is: Putty

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable.
Conditions To Avoid: Avoid heat, flames and other sources of ignition.
Hazardous: Combustion will produce toxic and irritating vapors
Decomposition: including carbon monoxide and carbon dioxide.
Products:
Incompatibility/Strong oxidizing agents.
Materials To Avoid:
Hazardous: Will not occur.
Polymerization:

SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation: Not a likely route of entry.
Skin: May cause mild irritation. Prolonged and repeated contact may cause dermatitis.
Eye: Contact may cause irritation.
Ingestion: Swallowing may cause a laxative effect including cramps and diarrhea.
Chronic Toxicity: Prolonged or repeated overexposure cause dermatitis.
Toxicity Data: Not available
Sensitization: None of the components are known to cause sensitization.
Carcinogenicity: None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.
Mutagenicity: None of the components are known to be mutagenic.
Reproductive Toxicity: None of the components are known to be toxic to reproduction.
Medical Conditions Aggravated By Exposure: None known.

SECTION 12 ECOLOGICAL INFORMATION

No ecotoxicological information known.
VOC Information: This product has very low VOC level.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with current local, state and federal regulations.
RCRA Hazardous Waste Number: Not a hazardous waste.
EPA Hazardous Waste ID Number: Not a hazardous waste.
EPA Hazard Waste Class: Not a hazardous waste.

SECTION 14 TRANSPORT INFORMATION

| DOT | <u>Less than 1 Liter (0.3 gal)</u> | <u>Greater than 1 Liter (0.3 gal)</u> |
|-----------------------------|------------------------------------|---------------------------------------|
| Proper Shipping Name: | Not regulated. | Not regulated. |
| Hazard Class/Packing Group: | None | None |
| UN/NA Number: | None | None |
| Hazard Labels: | None | None |

IMDG

| | |
|-----------------------------|---------------|
| Proper Shipping Name: | Not regulated |
| Hazard Class/Packing Group: | None |
| UN Number: | None |
| Label: | None |

2004 North American Emergency Response Guidebook Number: None

SECTION 15 REGULATORY INFORMATION

Hazard Category for Section 302 Extremely Hazardous Substances (TPQ): Not hazardous. This product does not contain chemicals regulated under SARA Section 302.

Section 313 Toxic Chemicals: This product does not contain any chemicals regulated under SARA Title III Section 313.

CERCLA 103 Reportable Quantity: This product does not contain any chemicals regulated under CERCLA.

California Proposition 65: This product does not contain any chemicals subject To California Proposition 65 regulation.

TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

Canadian WHIMS Classification: Not a controlled product. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16 OTHER INFORMATION

NFPA and HMIS:
NFPA Hazard Signal: Health: 0 Flammability: 0 Reactivity: 0 Special: None
HMIS Hazard Signal: Health: 0 Flammability: 0 Reactivity: 0 PPE: A

Disclaimer:

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.