MATERIAL SAFETY DATA SHEET

MSDS Number: 1402C

Section 1  PRODUCT AND COMPANY IDENTIFICATION
Trade Name: OATEY CANADIAN PURPLE or CLEAR PRIMER NSF LISTED
Product Nos.: Purple - 30759, 30927, 31480, 31481, 31482, 31483 Clear - 30754, 31485,
31486, 31487, 31488, 31525, 31526, 31527, 31528
Product Use: Primer for PVC and CPVC Plastic Pipe
Formula: See section 3
Synonyms: Plastic Pipe Primer
Firm Name & Address: Oatey Company 4700 West 160th Street, Cleveland, Ohio 44135
www.oatey.com
Firm Phone No: (216) 267-7100
Emergency Phone: For Emergency First Aid call 1-877-740-5015. For chemical transportation
Nos.: emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1-703-527-3887.
Prepared by: Technical Department
Preparation Date: 09/11/2012

Section 2  HAZARDS IDENTIFICATION
Emergency Overview:
Purple or Clear 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 3  COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>%wt/wt :</th>
<th>CAS NUMBER:</th>
<th>ACGIH TLV TWA:</th>
<th>OSHA PEL TWA</th>
<th>OTHER:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofuran</td>
<td>10 - 30%</td>
<td>109-99-9</td>
<td>50 ppm (skin)</td>
<td>200 ppm</td>
<td>25 ppm (Mfg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>100 ppm STEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>20 - 40%</td>
<td>78-93-3</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>300 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>20 - 40%</td>
<td>67-64-1</td>
<td>500 ppm</td>
<td>1000 ppm</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>750 ppm STEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>15 - 30%</td>
<td>108-94-1</td>
<td>20 ppm (skin)</td>
<td>50 ppm</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>50 ppm STEL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OSHA Hazard Classification: Flammable, irritant, organ effects

Section 4  FIRST AID MEASURES
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:
Flashpoint / Method: 14 - 23 Degrees F. (-10 to -5 Degrees C) / CCCFP
Extinguishing Media: Use dry chemical, CO2, or foam to extinguish fire. Cool fire exposed container
with water. Water may be ineffective as an extinguishing agent.
Special Fire Fighting Procedure: Firefighters should wear positive pressure self-contained breathing apparatus
and full protective clothing for fires in areas where chemicals are used or stored
Unusual Fire And Explosion Hazards: Extremely flammable liquid. Keep away from heat and all sources of ignition
including sparks, flames, lighted 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 Decomposition Products: Combustion will produce toxic and irritating vapors including carbon monoxide,
carbon dioxide and hydrogen chloride.

Section 6  ACCIDENTAL RELEASE MEASURES
Spill or Leak Procedures: Remove all sources of ignition and ventilate area. Stop leak if it can be done
without risk. Personnel cleaning up the spill should 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 Protection: For operations where the exposure limit may be exceeded, a NIOSH 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 Protection: Rubber gloves are suitable for normal use of the product. For long exposures
chemical resistant gloves may be required such as 4H(tm) or Silver Shield(tm) to avoid prolonged skin contact.
Eye Protection: Safety glasses with side shields or safety goggles.
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: 99.96%
Solubility In Water: Negligible
pH: Not applicable
Specific Gravity: 0.84 +/- 0.02 @ 20 Degrees C
Evaporation Rate: (BUAC = 1) = 5.5 - 8.0
Appearance: Purple or Clear 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 Products: Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.
Incompatibility/ Materials To Avoid: Oxidizing agents, alkalis, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. May attack plastic, resins and rubber.
Hazardous Polymerization: Will not occur.

Section 11  TOXICOLOGICAL INFORMATION

Inhalation: Vapors or mists may cause mucus membrane and respiratory irritation, coughing, headache, dizziness, dizziness, 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: 
- Acetone: Oral rat LD50: 5,800 mg/kg Inhalation rat LC50: 50,100 mg/m3/8 hours
- 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

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. Acetone, 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. Acetone and 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.

**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. Acetone: 96 hour LC50 for fish is greater than 100 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:**
Maximum 550 g/L per SCAQMD Test Method 316A.

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

**DOT**

<table>
<thead>
<tr>
<th>Less than 1 Liter (0.3 gal)</th>
<th>Greater than 1 Liter (0.3 gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN/NA Number: None</td>
<td>UN1993</td>
</tr>
<tr>
<td>Proper Shipping Name: Consumer Commodity</td>
<td>Flammable Liquid, NOS (Methyl Ethyl Ketone, Acetone)</td>
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<tr>
<td>Hazard Class: ORM-D</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group: None</td>
<td>PGII</td>
</tr>
<tr>
<td>Hazard Labels: None</td>
<td>Flammable Liquid</td>
</tr>
</tbody>
</table>

**IMDG**

| UN Number: UN1993 | UN1993 |
| Proper Shipping Name: Flammable Liquid, NOS (Limited Quantity) | Flammable Liquid, NOS (Methyl Ethyl Ketone, Acetone) |
| Hazard Class: 3 | 3 |
| Packing Group: II | II |
| Label: None (Limited Quantities are expected from labeling) | Class 3 (Flammable Liquid) |
| Flashpoint (deg C) -10 to -5 Degrees C | -10 to -5 Degrees C |

2008 North American Emercency Response Guidebook Number: 127
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 does not contain chemicals subject to SARA Title III Section 313 Reporting requirements.

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 (30% maximum) of 1,000 lbs, is 3,333 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65:
This product does not contain any chemicals subject to California Proposition 65 regulations.

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

Canadian WHIMS Classification:
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, we cannot give any guarantees regarding information from other sources, and expressly do not make warranties, nor assume any liability for its use.

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