Material Name: Elmer's Multi-Purpose Spray Adhesive

Manufacturer Information
Elmer's Products, Inc.
460 Polaris Parkway
Westerville, OH 43082

Emergency Phone Number:
Poison Control Center
1-888-516-2502

For additional product information, access our website at www.elmers.com or call 1-888-435-6377. To place an order, call 1-800-848-9400.

Trade Names/Synonyms
E421; E422; E451; E452; 60451; 61451

Product Use
adhesives

NFPA Ratings:
Health: 2 Fire: 4 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

EMERGENCY OVERVIEW
Color: white
Physical Form: liquid
Odor: minty odor
Major Health Hazards: eye irritation
Physical Hazards: Extremely flammable. Flash back hazard. Containers may rupture or explode if exposed to heat.

POTENTIAL HEALTH EFFECTS

Inhalation
Short Term: irritation, changes in body temperature, nausea, vomiting, fatigue, stomach pain, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, loss of coordination, blurred vision, kidney damage, liver damage, convulsions, unconsciousness, coma
Long Term: irritation, changes in body temperature, headache, drowsiness, dizziness, loss of coordination, blood disorders, nausea, vomiting, irregular heartbeat, kidney damage, liver damage, convulsions, unconsciousness, coma
Skin
**Short Term:** irritation
**Long Term:** irritation, tingling sensation

Eye
**Short Term:** irritation (possibly severe), blurred vision, tearing
**Long Term:** irritation, eye damage

Ingestion
**Short Term:** nausea, vomiting, diarrhea, headache, drowsiness, dizziness, loss of coordination, unconsciousness, stomach pain, kidney damage, liver damage
**Long Term:** kidney damage, liver damage

**Regulatory Status**
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is a controlled product according to Canada’s Controlled Product Regulation.

**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-83-5</td>
<td>2-METHYLPENTANE</td>
<td>35</td>
</tr>
<tr>
<td>67-64-1</td>
<td>ACETONE</td>
<td>20</td>
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<tr>
<td>75-28-5</td>
<td>ISOBUTANE</td>
<td>15</td>
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<tr>
<td>74-98-6</td>
<td>PROPANE</td>
<td>10</td>
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<tr>
<td>115-10-6</td>
<td>DIMETHYL ETHER</td>
<td>10</td>
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<tr>
<td>68551-19-9</td>
<td>ALKANES, C12-14-ISO-</td>
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<tr>
<td>109-66-0</td>
<td>PENTANE</td>
<td>5</td>
</tr>
<tr>
<td>71-43-2</td>
<td>BENZENE</td>
<td>&lt;0.00070</td>
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<tr>
<td>75-07-0</td>
<td>ACETALDEHYDE</td>
<td>&lt;0.00030</td>
</tr>
<tr>
<td>50-00-0</td>
<td>FORMALDEHYDE</td>
<td>&lt;0.00030</td>
</tr>
</tbody>
</table>

**Component Related Regulatory Information**
This product may be regulated, have exposure limits or other information identified as the following: Hexane isomers, Aliphatic hydrocarbon gases (Alkane [C1-C4]), Pentanes.

**Section 4 - FIRST AID MEASURES**

**Inhalation**
If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**Skin**
If bonding occurs, immerse the bonded surfaces in warm soapy water. Peel or roll the surfaces apart using a blunt edge, such as a spatula or spoon handle. Do not pull surfaces apart with a direct opposing action. If burns occur, treat as thermal burns. Get medical attention, if needed.

**Eyes**
If bonding to tissues occurs, wash with large amounts of warm water. Cover both eyes with sterile bandages. The eye will open without further action. Do not pull surfaces apart with a direct opposing action. If burns occur, treat as thermal burns. Get medical attention.

**Ingestion**
If swallowed, get medical attention.

**Note to Physicians**
For inhalation, consider oxygen.

--- **Section 5 - FIRE FIGHTING MEASURES**

See Section 9 for Flammability Properties

**Flammable Properties**
Severe fire hazard. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Containers may rupture or explode if exposed to heat.

**Extinguishing Media**
carbon dioxide, regular dry chemical

**Protective Equipment and Precautions for Firefighters**
Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

**Fire Fighting Measures**
Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

**Sensitivity to Mechanical Impact**
Not sensitive

**Sensitivity to Static Discharge**
Yes

--- **Section 6 - ACCIDENTAL RELEASE MEASURES**

**Occupational spill/release**
Avoid heat, flames, sparks and other sources of ignition. Do not touch spilled material. Stop leak if possible without personal risk. Small spills of the liquid component: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Spills with a large number of canisters: Reduce vapors with water spray. Remove sources of ignition. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

--- **Section 7 - HANDLING AND STORAGE**

**Handling Procedures**
Avoid heat, flames, sparks and other sources of ignition. Avoid contact with eyes. Do not eat, drink, or smoke when
using this product. Wash thoroughly after handling. Since emptied containers retain material residue, follow safe handling/label warnings even after container is emptied. Do not cut, puncture, or weld on or near this container.

Storage Procedures
Store and handle in accordance with all current regulations and standards. Store below 49 C. Keep away from heat, sparks and flame. Avoid direct sunlight. See original container for storage recommendations. Keep separated from incompatible substances.

* * * Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION* * *

Component Exposure Limits
ACETONE (67-64-1)
ACGIH: 500 ppm TWA
750 ppm STEL

NIOSH: 250 ppm TWA; 590 mg/m3 TWA

OSHA: 1000 ppm TWA; 2400 mg/m3 TWA

OSHA (Vacated): 2400 mg/m3 STEL (The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors); 1000 ppm STEL
750 ppm TWA; 1800 mg/m3 TWA

ISOBUTANE (75-28-5)
ACGIH: 1000 ppm TWA

NIOSH: 800 ppm TWA; 1900 mg/m3 TWA

PROPANE (74-98-6)
ACGIH: 1000 ppm TWA

NIOSH: 1000 ppm TWA; 1800 mg/m3 TWA

OSHA: 1000 ppm TWA; 1800 mg/m3 TWA

OSHA (Vacated): 1000 ppm TWA; 1800 mg/m3 TWA

DIMETHYL ETHER (115-10-6)
AIHA: 1000 ppm TWA

PENTANE (109-66-0)
ACGIH: 600 ppm TWA

NIOSH: 120 ppm TWA; 350 mg/m3 TWA
610 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)

OSHA: 1000 ppm TWA; 2950 mg/m3 TWA

OSHA (Vacated): 750 ppm STEL; 2250 mg/m3 STEL
600 ppm TWA; 1800 mg/m3 TWA

BENZENE (71-43-2)
ACGIH: 0.5 ppm TWA
2.5 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route
NIOSH:  
0.1 ppm TWA  
1 ppm STEL

OSHA:  
10 ppm TWA (applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028); 1 ppm TWA  
5 ppm STEL (see 29 CFR 1910.1028)  
25 ppm Ceiling  

OSHA (Vacated):  
25 ppm Ceiling (unless specified in 1910.1028)  
50 ppm STEL (unless specified in 1910.1028, 10 min)  
10 ppm TWA (unless specified in 1910.1028)

ACETALDEHYDE (75-07-0)  
ACGIH:  
25 ppm Ceiling  

OSHA:  
200 ppm TWA; 360 mg/m³ TWA  
150 ppm STEL; 270 mg/m³ STEL

OSHA (Vacated):  
100 ppm TWA; 180 mg/m³ TWA

FORMALDEHYDE (50-00-0)  
ACGIH:  
0.3 ppm Ceiling  

NIOSH:  
0.016 ppm TWA  
0.1 ppm Ceiling (15 min)  

OSHA:  
0.75 ppm TWA  
2 ppm STEL (see 29 CFR 1910.1048)  

OSHA (Vacated):  
5 ppm Ceiling (unless specified in 1910.1048)  
10 ppm STEL (unless specified in 1910.1048, 30 min)  
3 ppm TWA (unless specified in 1910.1048)

Ventilation  
Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT  
Eyes/ Face  
Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Protective Clothing  
Wear appropriate chemical resistant clothing.

Glove Recommendations  
Wear appropriate chemical resistant gloves.

Respiratory Protection  
Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum.
Consider warning properties before use.

**For Unknown Concentrations or Immediately Dangerous to Life or Health** -
Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.
Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

---

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State: Aerosol</th>
<th>Appearance: white liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color: white</td>
<td>Physical Form: liquid</td>
</tr>
<tr>
<td>Odor: minty odor</td>
<td>Odor Threshold: Not available</td>
</tr>
<tr>
<td>Melting Point: Not available</td>
<td>Boiling Point: -44 - -44 °C</td>
</tr>
<tr>
<td>Flash Point: -104 °C (PMCC)</td>
<td>Evaporation Rate: faster than, butyl acetate</td>
</tr>
<tr>
<td>LEL: 1.0 %</td>
<td>UEL: 18.0 %</td>
</tr>
<tr>
<td>Vapor Pressure: Not available</td>
<td>Vapor Density (air = 1): &gt;1</td>
</tr>
<tr>
<td>Specific Gravity (water = 1): 0.6932</td>
<td>Water Solubility: negligible</td>
</tr>
<tr>
<td>Coeff. Water/Oil Dist: Not available</td>
<td>VOC: 64.3 % weight</td>
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<tr>
<td>VOC less Water and Exempt Solvents: 522 g/L</td>
<td>Volatility by Volume: 87.0 %</td>
</tr>
<tr>
<td>Volatility by Weight: 81.1 %</td>
<td></td>
</tr>
</tbody>
</table>

---

### Section 10 - STABILITY AND REACTIVITY

**Chemical Stability**
Stable at normal temperatures and pressure.

**Conditions to Avoid**
Avoid heat, flames, sparks and other sources of ignition. Minimize contact with material. Containers may rupture or explode if exposed to heat.

**Materials to Avoid**
acids, amines, bases, oxidizing materials, reducing agents

**Decomposition Products**
hydrocarbons, oxides of carbon, oxides of sulfur

**Possibility of Hazardous Reactions**
Will not polymerize.
**Section 11 - TOXICOLOGICAL INFORMATION**

**Component Analysis - LD50/LC50**  
The components of this material have been reviewed in various sources and the following selected endpoints are published:

**ACETONE (67-64-1)**  
Oral LD50 Rat 5800 mg/kg

**ISOBUTANE (75-28-5)**  
Inhalation LC50 Rat 658 mg/L 4 h

**PROPAINE (74-98-6)**  
Inhalation LC50 Rat 658 mg/L 4 h

**DIMETHYL ETHER (115-10-6)**  
Inhalation LC50 Rat 308.5 mg/L 4 h

**PENTANE (109-66-0)**  
Inhalation LC50 Rat 364 g/m3 4 h; Dermal LD50 Rabbit 3000 mg/kg; Oral LD50 Rat >2000 mg/kg

**BENZENE (71-43-2)**  
Inhalation LC50 Rat 13050-14380 ppm 4 h; Oral LD50 Rat 1800 mg/kg

**ACETALDEHYDE (75-07-0)**  
Oral LD50 Rat 1930 mg/kg

**FORMALDEHYDE (50-00-0)**  
Oral LD50 Rat 500 mg/kg; Inhalation LC50 Rat 0.578 mg/L 4 h

**RTECS Acute Toxicity (selected)**  
The components of this material have been reviewed, and RTECS publishes the following endpoints:

**ACETONE (67-64-1)**  
Inhalation: 50100 mg/m3/8 hour Inhalation Rat LC50; 50100 mg/m3 Inhalation Rat LC50  
Oral: 5800 mg/kg Oral Rat LD50; 5800 mg/kg Oral Rat LD50  
Skin: >9400 uL/kg Skin Guinea pig LD50

**ISOBUTANE (75-28-5)**  
Inhalation: 570000 ppm/15 minute(s) Inhalation Rat LC50; 57 pph/15 minute(s) Inhalation Rat LC50; 658000 mg/m3/4 hour Inhalation Rat LC50

**PROPAINE (74-98-6)**  
Inhalation: >80000 ppm/15 minute(s) Inhalation Rat LC50

**DIMETHYL ETHER (115-10-6)**  
Inhalation: 308 gm/m3 Inhalation Rat LC50; 309 gm/m3/4 hour Inhalation Rat LC50; 164000 ppm/4 hour Inhalation Rat LC50

**PENTANE (109-66-0)**  
Inhalation: 364 gm/m3/4 hour Inhalation Rat LC50  
Oral: >2000 mg/kg Oral Rat LD50

**Acute Toxicity Level**  
**ACETONE (67-64-1)**
Moderately Toxic: inhalation
Slightly Toxic: ingestion

ISOBUTANE (75-28-5)
Non Toxic: inhalation

DIMETHYL ETHER (115-10-6)
Slightly Toxic: inhalation

PENTANE (109-66-0)
Non Toxic: inhalation

BENZENE (71-43-2)
Highly Toxic: dermal absorption
Moderately Toxic: ingestion
Slightly Toxic: inhalation

ACETALDEHYDE (75-07-0)
Moderately Toxic: inhalation, ingestion
Slightly Toxic: dermal absorption

FORMALDEHYDE (50-00-0)
Highly Toxic: inhalation

Component Carcinogenicity
ACETONE (67-64-1)
ACGIH: A4 - Not Classifiable as a Human Carcinogen

BENZENE (71-43-2)
ACGIH: A1 - Confirmed Human Carcinogen
IARC: Monograph 100F [in preparation]; Supplement 7 [1987]; Monograph 29 [1982] (Group 1 (carcinogenic to humans))
OSHA: Cancer hazard - see 29 CFR 1910.1028
NTP: Known Human Carcinogen

ACETALDEHYDE (75-07-0)
ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC: Monograph 100E [in preparation] (associated with consumption of alcoholic beverages) (Group 1 (carcinogenic to humans))
NTP: Reasonably Anticipated To Be A Human Carcinogen

FORMALDEHYDE (50-00-0)
ACGIH: A2 - Suspected Human Carcinogen
IARC: Monograph 100F [in preparation]; Monograph 88 [2006]; Monograph 62 [1995]; Supplement 7 [1987] (Group 1 (carcinogenic to humans))

OSHA: Irritant and potential cancer hazard - see 29 CFR 1910.1048

NTP: Known Human Carcinogen

Irritation
   eye irritation

RTECS Irritation
The components of this material have been reviewed, and RTECS publishes the following endpoints:

ACETONE (67-64-1)
   Irritant: inhalation, skin, eye
   500 ppm Eyes Human; 186300 ppm Eyes Human mild; 10 uL Eyes Rabbit mild; 20 mg/24 hour Eyes Rabbit moderate; 20 mg Eyes Rabbit severe; 500 mg/24 hour Skin Rabbit mild; 395 mg/open Skin Rabbit mild

Local Effects
2-METHYLPENTANE (107-83-5)
   Irritant: inhalation, skin, eye

ACETONE (67-64-1)
   Irritant: inhalation, skin, eye

ISOBUTANE (75-28-5)
   Irritant: inhalation

DIMETHYL ETHER (115-10-6)
   Irritant: inhalation, skin, eye

PENTANE (109-66-0)
   Irritant: inhalation, skin

BENZENE (71-43-2)
   Irritant: inhalation, skin, eye

ACETALDEHYDE (75-07-0)
   Irritant: inhalation, skin, eye

FORMALDEHYDE (50-00-0)
   Irritant: skin, eye
   Corrosive: inhalation, skin, eye, ingestion

Target Organs
2-METHYLPENTANE (107-83-5)
   central nervous system

ACETONE (67-64-1)
   central nervous system

ISOBUTANE (75-28-5)
   central nervous system

PROPANE (74-98-6)
   central nervous system

DIMETHYL ETHER (115-10-6)
   central nervous system
PENTANE (109-66-0)
  central nervous system

BENZENE (71-43-2)
  immune system (blood), central nervous system

ACETALDEHYDE (75-07-0)
  immune system (sensitizer), central nervous system

FORMALDEHYDE (50-00-0)
  immune system (sensitizer)

Medical Conditions Aggravated by Exposure
respiratory disorders, skin disorders and allergies

RTECS Tumorigenic
The components of this material have been reviewed, and RTECS publishes data for one or more components.

RTECS Mutagenic
The components of this material have been reviewed, and RTECS publishes data for one or more components.

RTECS Reproductive Effects
The components of this material have been reviewed, and RTECS publishes data for one or more components.

Additional Data
Stimulants such as epinephrine may induce ventricular fibrillation. Alcohol may enhance the toxic effects.

* * * Section 12 - ECOLOGICAL INFORMATION* * *

Component Analysis - Aquatic Toxicity

ACETONE (67-64-1)
Fish: 96 Hr LC50 Oncorhynchus mykiss: 4.74 - 6.33 mL/L; 96 Hr LC50 Pimephales promelas: 6210 - 8120 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 8300 mg/L

Invertebrate: 48 Hr EC50 Daphnia magna: 10294 - 17704 mg/L [Static]; 48 Hr EC50 Daphnia magna: 12600 - 12700 mg/L

PENTANE (109-66-0)
Fish: 96 Hr LC50 Oncorhynchus mykiss: 9.87 mg/L; 96 Hr LC50 Pimephales promelas: 11.59 mg/L; 96 Hr LC50 Lepomis macrochirus: 9.99 mg/L

Invertebrate: 48 Hr EC50 Daphnia magna: 9.74 mg/L

BENZENE (71-43-2)
Fish: 96 Hr LC50 Pimephales promelas: 10.7-14.7 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 5.3 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 22.49 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 28.6 mg/L [static]; 96 Hr LC50 Pimephales promelas: 22330-41160 μg/L [static]; 96 Hr LC50 Lepomis macrochirus: 70000-142000 μg/L [static]

Algae: 72 Hr EC50 Pseudokirchneriella subcapitata: 29 mg/L

Invertebrate: 48 Hr EC50 Daphnia magna: 8.76 - 15.6 mg/L [Static]; 48 Hr EC50 Daphnia magna: 10 mg/L

ACETALDEHYDE (75-07-0)
Fish: 96 Hr LC50 Pimephales promelas: 28.0-34.0 mg/L [flow-through]; 96 Hr
LC50 Lepomis macrochirus: 53 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 1.8-2.4 mg/L [static]; 96 Hr LC50 Pimephales promelas: 39.8-46.8 mg/L [static]

**Algae:** 120 Hr EC50 Nitzschia linearis: 237 - 249 mg/L

**Invertebrate:** 48 Hr EC50 Daphnia magna: 3.64 - 6.15 mg/L [Static]; 48 Hr EC50 Daphnia magna: 48.3 mg/L

**FORMALDEHYDE (50-00-0)**

**Fish:** 96 Hr LC50 Pimephales promelas: 22.6 - 25.7 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 1510 µg/L [static]; 96 Hr LC50 Brachydanio rerio: 41 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 0.032 - 0.226 mL/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 100 - 136 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.2 - 29.7 mg/L [static]

**Invertebrate:** 48 Hr LC50 Daphnia magna: 2 mg/L; 48 Hr EC50 Daphnia magna: 11.3 - 18 mg/L [Static]

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**Section 13 - DISPOSAL CONSIDERATIONS**

**Disposal Methods**
Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

**Component Waste Numbers**

**ACETONE (67-64-1)**
RCRA: waste number U002 (Ignitable waste)

**BENZENE (71-43-2)**
RCRA: waste number U019 (Ignitable waste, Toxic waste)
0.5 mg/L regulatory level

**ACETALDEHYDE (75-07-0)**
RCRA: waste number U001 (Ignitable waste)

**FORMALDEHYDE (50-00-0)**
RCRA: waste number U122

---

**Section 14 - TRANSPORT INFORMATION**

**US DOT Information**

Shipping Name: Aerosols
Hazard Class: 2.1
UN/NA #: UN1950
Required Label(s): 2.1

**TDG Information**

Shipping Name: Aerosols
Hazard Class: 2.1
UN #: UN1950
Required Label(s): 2.1
**Section 15 - REGULATORY INFORMATION**

**U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

**ACETONE (67-64-1)**
- **CERCLA:** 5000 lb final RQ; 2270 kg final RQ

**PENTANE (109-66-0)**
- **TSCA 12b:** Section 4, 1 % de minimis concentration

**BENZENE (71-43-2)**
- **SARA 313:** 0.1 % de minimis concentration
- **CERCLA:** 10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule)

**ACETALDEHYDE (75-07-0)**
- **SARA 313:** 0.1 % de minimis concentration
- **CERCLA:** 1000 lb final RQ; 454 kg final RQ
- **TSCA 12b:** Section 4, 0.1 % de minimis concentration

**FORMALDEHYDE (50-00-0)**
- **SARA 302/304:**
  - 500 lb TPQ
  - 100 lb EPCRA RQ
- **SARA 313:** 0.1 % de minimis concentration
- **CERCLA:** 100 lb final RQ; 45.4 kg final RQ
- **OSHA (safety):**
  - 2500 lb TQ

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

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<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
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<tbody>
<tr>
<td>2-METHYLPENTANE</td>
<td>107-83-5</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>ACETONE</td>
<td>67-64-1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>ISOBUTANE</td>
<td>75-28-5</td>
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<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<td>PROPANE</td>
<td>74-98-6</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>DIMETHYL ETHER</td>
<td>115-10-6</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.
WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

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

Canada WHMIS
The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

2-METHYLPENTANE (107-83-5)  
1 %
ACETONE (67-64-1)  
1 %
PENTANE (109-66-0)  
1 %

WHMIS Classification
D2B, B5.

Canadian Inventory
All identified components are listed on the DSL.

U.S. Inventory (TSCA)
All the components of this substance are listed on or are exempt from the inventory.

Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>US</th>
<th>CA</th>
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<td>Yes</td>
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<tr>
<td>ISOBUTANE</td>
<td>75-28-5</td>
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<td>PROPANE</td>
<td>74-98-6</td>
<td>Yes</td>
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<td>PENTANE</td>
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<td>ALKANES, C12-14-ISO-</td>
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<td>BENZENE</td>
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<td>ACETALDEHYDE</td>
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** Key / Legend **

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

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