

# **Material Safety Data Sheet**

#### 1. Chemical Product and Company Identification

DESCRIPTION: ELMER'S SLIDE-ALL PRODUCT TYPE: TEFLON BASED LUBRICANT APPLICATION: E450.

#### Manufacturer/Supplier Information

 MSDS Prepared by:
 Emergency Phone Number

 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 614-225-7689

 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.

		a på merdur
67-63-0	*Isopropanol	1-5
74-98-6	Propane	10-30
106-97-8	Butane	30-50
109-66-0	Pentane	30-50
142-82-5	Heptane	10-30
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# 3. Hazards Identification

## 3.1 Emergency Overview

 Appearance
 White powder

 Odor
 Mild solvent

 DANGER!
 EXTREMELY FLAMMABLE

 May be harmful if inhaled.
 Can cause central nervous system depression.

 Skin irritant.
 Eye irritant.

10/20/2003

## HMIS Rating

```
HEALTH = 2 (moderate)
FLAMMABILITY = 4 (severe)
REACTIVITY = 0 (minimal)
CHRONIC = *
```

# **3.2 Potential Health Effects**

## Immediate Hazards

```
INGESTION:
             Not expected to be harmful under normal conditions of
             use
             If accidently swallowed, burns or irritation to mucous
             membranes, esophagus or GI tract can result.
INHALATION: May be harmful if inhaled. Liquid or vapor may cause
             irritation of nose, throat and lungs.
             Can cause central nervous system depression.
SKIN:
             Causes irritation.
EYES:
            Causes irritation.
                  67-63-0
Isopropanol
Can cause central nervous system depression. Signs and symptoms may
include headache, dizziness, nausea, vomiting, unconsciousness and
even asphyxiation.
Propane
               74-98-6
This material is a simple asphyxiant. Signs and symptoms of
overexposure include cyanosis, respiratory distress, headache,
dizziness, drowsiness, unconsciousness and asphyxiation. Can cause
central nervous system depression.
             109-66-0
Pentane
Can cause central nervous system depression. Signs and symptoms may
include headache, dizziness, nausea, vomiting, unconsciousness and
even asphyxiation.
Heptane
            142-82-5
Can cause central nervous system depression. Signs and symptoms may
include headache, dizziness, nausea, vomiting, unconsciousness and
even asphyxiation.
```

#### Delayed Hazards

```
Isopropanol 67-63-0
Suspect reproductive hazard. May cause reproductive disorders
based on animal data.
May cause liver damage based on animal data.
May cause kidney damage based on animal data.
-- 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

**INSESTION:** If accidently 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.	
	Call a physician.	
SKIN	Flush with plenty of water. Remove contaminated	
	clothing. Call a physician if irritation persists.	
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

```
Autoignition Temperature
                                   Not available
Upper/Lower Flammable Limits
                                   Not available
Up/Lower Explosive Limits, & by Vol 12.7/1.1
Flash Point
                                    < -18 deg C
EXTREMELY FLAMMABLE.
DO NOT INCINERATE (BURN) CONTAINER. AVOID HEAT. KEEP CONTAINER
BELOW 120 F (50 C). High temperatures may cause bursting. Do not
place container on radiator, stove, in direct sunlight or near other
heat sources. DO NOT PUNCTURE CONTAINER. Contents under pressure
will discharge. AVOID OPEN FLAMES, SPARKS, PILOT LIGHTS. DO NOT
SMOKE. Vapor may ignite explosively. Spray mist or vapor
evaporating from a deposited film is heavier than air and may settle
in low places or travel outward to a source of ignition and flashback.
In case of fire, use dry chemical, foam or CO2. Water may
be ineffective, but should be used to keep fire-exposed containers
cool.
```

## 6. Accidental Release Measures

```
Eliminate all ignition sources. 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.
INHALATION: USE WITH ADEQUATE VENTILATION. To avoid breathing
vapors or spray mist, open windows and doors or use other means, such
as an exhaust fan to ensure fresh air entry during application and
drying. If you experience eye watering, headache or dizziness,
increase fresh air, wear respiratory protection (NIOSH/MSHA TC23C or
equivalent), or leave the area.
SKIN: Avoid contact with skin and clothing.
EYES: Avoid contact with eyes.
```

# 7.2 Storage

Store in a cool, dry place

10/20/2003

Keep containers tightly closed. Do not store at temperatures above 50 C. Keep away from heat, sparks, flame and other ignition sources.

## 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

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 if contact is likely. Wear impervious gloves as required to prevent skin contact.

## 8.3 Exposure Guidelines

```
67-63-0
Isopropanol
ACGIH TLV: 400 ppm (983 mg/m,) TWA; 500 ppm (1230 mg/m,) STEL
OSHA PEL: 400 ppm (980 mg/m,) TWA
REMANDED PEL: 400 ppm (980 mg/m,) TWA; 500 ppm (1225 mg/m,) STEL
OSHA 1989 PEL remanded, but in effect in some states
                74-98-6
Propane
ACGIH TLV: 2500 ppm (4508 mg/m,) TWA
OSHA PEL: 1000 ppm (1800 mg/m,) TWA
             106-97-8
Butane
ACGIH TLV: 800 ppm (1900 mg/m,) TWA
OSHA PEL: REMANDED PEL: 800 ppm (1900 mg/m,) TWA
OSHA 1989 PEL remanded, but in effect in some states
Pentane
               109-66-0
ACGIH TLV: 600 ppm (1770 mg/m,) TWA
OSHA PEL: 1000 ppm (2950 mg/m,) TWA
REMANDED PEL: 600 ppm (1800 mg/m,) TWA; 750 ppm (2250 mg/m,) STEL
OSHA 1989 PEL remanded, but in effect in some states
Heptane
               142-82-5
ACGIH TLV: 400 ppm (1640 mg/m,) TWA; 500 ppm (2050 mg/m,) STEL
OSHA PEL: 500 ppm (2000 mg/m<sub>w</sub>) TWA
REMANDED PEL: 400 ppm (1600 mg/m<sub>w</sub>) TWA; 500 ppm (2000 mg/m<sub>w</sub>) STEL
OSHA 1989 PEL remanded, but in effect in some states
```

# 9. Physical and Chemical Properties

Percent Volatiles	100
pH @ 25 C	Not available
Specific Gravity	0.61
Appearance	White powder
Autoignition Temperature	Not available
Boiling Point	< 0 -136 deg C
Vapor Density (Air=1)	> 1
Vapor Pressure, mom Hg @ 20 C	Not available
EVAPORATION RATE (ETHER-1)	> 1
Upper/Lower Flammable Limits	Not available
Up/Lower Explosive Limits, % by Vol	12.7/1.1
Flash Point	< -18 deg C
Freezing Point	Not available
Odor	Mild solvent
Odor Threshold, ppm	Not available
Solubility in Water	Negligible
Coefficient of Water/Oll Distrib.	Not applicable

# **10. Stability and Reactivity**

Normally stable as defined in NFPA 704-12(4-3,1)

## Incompatibilities:

None known to Borden

#### Decomposition products may include:

CO, CO2.

#### • Hazardous polymerization:

Will not occur.

## • Other Hazards:

None known to Borden.

# **11. Toxicological Information**

```
See Section 3 Hazards Identification information.

Isopropanol 67-63-0

LC50: rat=16000 ppm/8H (Sax)

LD50: orl-rat=5.8 g/kg (Merck); skn-rbt=13 g/kg (Sax)

Propane 74-98-6

LC50: Not available
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```
LD50: Not available
Butane 106-97-8
LC50: rat=658 gm/m<sub>w</sub>/4H (Sax)
LD50: Not available
Pentane 109-66-0
LC50: Not available
LD50: Not available
Heptane 142-82-5
LC50: Not available
LD50: Not available
```

#### 12. Ecological Information

Not determined.

#### 13. Disposal Considerations

Dispose of according to local, state/provincial, and federal requirements. Empty container: May contain explosive vapors. DO NOT cut, puncture or weld on or nearby. Incineration will cause container to burst violently.

# 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.
ORM-D Consumer Commodity.
```

## 14.2 Canadian Transportation of Dangerous Goods (TDG)

Not determined.

# 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

Fire hazard Sudden release of pressure (explosion) 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. None required per SARA TITLE III SECTION 313.

# • 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 Borden.

# **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 2B
CLASS B, DIV 2
```

## Canadian Environmental Protection Act (CEPA)

This product contains one or more chemical substances not included on either the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

#### 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. Isopropyl alcohol 67-63-0 2.00%

## 16. Other Information

## 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.

> CUR ISSUE 21-FEB-00 PREVIOUS ISSUE: 25-FEB-97