



# MATERIAL SAFETY DATA SHEET

Val-Lube A-153

Revision Number 15, Revision Date 2/8/2007

## 1. IDENTIFICATION OF THE SUBSTANCE/Preparation AND THE COMPANY/Undertaking

**Product code** A00387PL MSDS  
**Product name** Val-Lube Dry Moly Valve Lubricant Extreme Pressure, A-153  
**Chemical characterization** Aerosol  
**Manufacturer, importer, supplier** Manufactured for:  
 Chemax Corporation  
 PO Box 7453  
 Beaumont, TX 77726  
 Phone: 800-346-0132

**EMERGENCY TELEPHONE NUMBER** 1-800-346-0132

## 2. HAZARD IDENTIFICATION

### Emergency Overview:

- DANGER:
- Extremely flammable
- Harmful or fatal if swallowed
- Ensure adequate ventilation
- Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 122°F (50°C)
- KEEP OUT OF REACH OF CHILDREN

<b>HMIS (Hazardous Material Information System)</b>	Health=2; Fire=3; Reactivity=0 Personal protective equipment = B
<b>Eye contact</b>	Irritating to eyes.
<b>Skin contact</b>	Mild skin irritation. Prolonged skin contact may defat the skin and produce dermatitis.
<b>Inhalation</b>	Inhalation of high vapour concentrations may cause nasal & respiratory irritation and symptoms like headache, dizziness, tiredness, nausea, vomiting and possible unconsciousness.
<b>Ingestion:</b>	Aspiration may cause chemical pneumonitis if aspirated into lungs. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>General advice</b>	Ensure adequate ventilation, especially in confined areas. Avoid contact with skin and eyes.
<b>Principle Routes of Exposure</b>	Inhalation and Skin Absorption

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

(hazardous components 1% or greater; carcinogens 0.1% or greater)

CAS	Chemical Name	% Weight	OSHA*	ACGIH TLV (ppm)
142-82-5	Heptane	30 - 40	500 ppm	400 ppm
67-64-1	Acetone	20 - 30	1000 ppm	750 ppm
67-63-0	Isopropyl Alcohol	5 - 15	400 ppm	400 ppm
1317-33-5	Molybdenum (IV) sulfide	< 10	15 mg/M3	15 mg/M3
75-28-5	Isobutane	10 - 20	800 ppm	800 ppm
74-98-6	Propane	10 - 20	1000 ppm	1000 ppm

\* OSHA - PELs

## 4. FIRST AID MEASURES

<b>Eye contact</b>	<ul style="list-style-type: none"> <li>• Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.</li> <li>• If eye irritation persists, consult a specialist</li> </ul>
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Skin contact	<ul style="list-style-type: none"> <li>Wash off with soap and water</li> <li>If skin irritation persists, call a physician</li> </ul>
Inhalation	<ul style="list-style-type: none"> <li>Move to fresh air</li> <li>If not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth.</li> <li>Obtain medical attention</li> </ul>
Ingestion:	<ul style="list-style-type: none"> <li>DO NOT INDUCE VOMITING</li> <li>Clean mouth with water and afterwards drink plenty of water</li> <li>Call a physician or Poison Control Centre immediately</li> </ul>
Aggravated Medical Conditions	<ul style="list-style-type: none"> <li>May aggravate existing eye, skin, or upper respiratory conditions</li> </ul>

**5. FIRE-FIGHTING MEASURES**

NFPA (National Fire Protection Association)	Health=2; Fire=3; Reactivity=0; Special = -
Flammability as per USA Flame Projection Test (aerosols)	Extremely flammable
Flash point (non-aerosols)	NA
Suitable extinguishing media	Foamy spray. Dry chemical. Carbon dioxide (CO2).
Extinguishing media which must not be used for safety reasons	None
Specific Hazards	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 122°F (50°C)
Special protective equipment for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Specific methods	Water mist may be used to cool closed containers.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions	Ensure adequate ventilation. Use personal protective equipment.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	<ul style="list-style-type: none"> <li>Remove all sources of ignition</li> <li>Vapours are heavier than air and may spread along floors</li> <li>Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container</li> </ul>

**7. HANDLING AND STORAGE**

**Handling**

Safe handling advice	Wear personal protective equipment. Do not pierce or burn, even after use. Do not spray on naked flame or any incandescent material.
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**Storage**

Technical measures/Precautions	KEEP OUT OF REACH OF CHILDREN. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 122°F (50°C).
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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering measures	Ensure adequate ventilation, especially in confined areas Remove all sources of ignition
Hand protection	Neoprene gloves
Eye protection	Safety glasses with side-shields
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
Skin and body protection	None under normal use.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

Wash hands and face before breaks and immediately after handling the product  
 Keep away from food and drink  
 When using, do not eat, drink or smoke.  
 Keep working clothes separately

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

Form Aerosol  
 Appearance spray  
 Colour black  
 Odour Solvent

### Important Health Safety and Environmental Information

Specific Gravity 0.74  
 Density @ 68°F (20 °C) 6.17 lbs/gal  
 pH N/A  
 Boiling point/range N/A  
 Flash point N/A  
 Vapour pressure Not Applicable.  
 Vapour density Not Established.  
 Water solubility Insoluble.  
 Evaporation Rate Not Established  
 VOC Content(%) 75.5 - 79.0%; per US EPA Definition

## 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight. Do not expose to temperatures above 54°C .
Materials to avoid	Oxidants
Hazardous decomposition products	Carbon oxides
Polymerization	Hazardous polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Component Information

CAS	Chemical Name	% Weight	NIOSH - Selected LD50s and LC50s
142-82-5	Heptane	30 - 40	Inhalation LC50 Rat: 103 g/m <sup>3</sup> /4H
67-64-1	Acetone	20 - 30	Inhalation LC50 Mouse: 44 g/m <sup>3</sup> /4H; Oral LD50 Rat: 5800 mg/kg
67-63-0	Isopropyl Alcohol	5 - 15	Oral LD50 Rat: 5045 mg/kg; Dermal LD50 Rabbit: 12800 mg/kg
1317-33-5	Molybdenum (IV) sulfide	< 10	N/A
75-28-5	Isobutane	10 - 20	Inhalation LC50 Rat: 57 pph/15M
74-98-6	Propane	10 - 20	N/A

### Product Information

LD50/oral/rat =	Not Determined
LD50/dermal/rat =	Not Determined
Local effects	

<b>Skin irritation</b>	May cause skin irritation and/or dermatitis or Possible irritation due to defatting of skin.
<b>Eye irritation</b>	Eye irritation.
<b>Inhalation</b>	Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
<b>Ingestion:</b>	May be harmful or fatal if swallowed.
<b>Sensitization</b>	May cause sensitization of susceptible persons.
<b>Chronic toxicity</b>	Prolonged exposure may cause chronic effects such as central nervous system effects., numbness or Chemical pneumonitis

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects**

**Component Information**

CAS	Chemical Name	% Weight	EFFSD*
142-82-5	Heptane	30 - 40	24 Hr LC50 goldfish: 4.0 mg/L; 24 Hr LC50 mosquito fish: 4900 mg/L; 96 Hr LC50 cichlid fish: 375.0 mg/L
67-64-1	Acetone	20 - 30	96 Hr LC50 rainbow trout: 5540 mg/L (static);96 Hr LC50 fathead minnow: 6210 mg/L (flow-through);96 Hr LC50 bluegill: 8300 mg/L (static)
67-63-0	Isopropyl Alcohol	5 - 15	96 Hr LC50 fathead minnow (29 days old):94900 mg/L (flow-through);96 Hr LC50 fathead minnow (31 days old):61200 mg/L (flow-through)
1317-33-5	Molybdenum (IV) sulfide	< 10	N/A
75-28-5	Isobutane	10 - 20	N/A
74-98-6	Propane	10 - 20	N/A

\* EFFSD - Ecotoxicity - Freshwater Fish Species Data

**Product Information**

**Aquatic toxicity** Not Determined.

**Other information:**

<b>Ozone depletion potential; ODP; (R-11 = 1)</b>	Not Determined.
<b>Global warming potential (GWP)</b>	Not Determined.
<b>Additional ecological information</b>	Not Determined.
<b>Mobility</b>	Not Determined
<b>Bioaccumulative potential</b>	Not Determined

**13. DISPOSAL CONSIDERATIONS**

<b>Waste from residues / unused products</b>	Should not be released into the environment. Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION**

<b>DOT</b>	(Ground).
<b>UN Number</b>	Not Applicable
<b>Proper shipping name</b>	Consumer Commodity ORM-D
<b>Packing group</b>	Not Applicable
<b>Subsidiary Risk</b>	Not Applicable
<b>Description</b>	1 4G Fiberboard Box X 12 Metal Cans