



# MATERIAL SAFETY DATA SHEET

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Revised edition no : 2

Date : 10 / 31 / 2008

Supersedes : 3 / 21 / 2008

## Bel-Ray Molyube 16

### 14500

### 1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Trade name** : Bel-Ray Molyube 16.  
**Identification of the product** : Molybdenum Disulfide  
**Use** : See product data sheet for detailed application.  
**Company identification** : Bel-Ray Company, Inc.  
P.O. Box 526  
Farmingdale NJ 07727 United States of America  
Telephone: +1 732 938 2421

**Emergency phone no** : CHEMTREC: 800-424-9300 (USA); +1 703-527-3887 (outside USA-call collect)

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

**Components / Impurities** : Bel-Ray Molyube 16 : Not classified as a dangerous product.

**Composition** : Molybdenum Disulfide

Substance name	Content	CAS No	EC No	Index No	Classification ***
Molybdenum Disulfide	: 75 to 100 %	1317-33-5	215-263-9	----	

\*\*\* List of relevant R phrases. See Heading 16 : OTHER INFORMATION

Other information : SARA Section 313 Chemical Listing: See Heading 15.

### 3 HAZARDS IDENTIFICATION

• **Inhalation** : May cause irritation to the respiratory tract.  
• **Skin contact** : May produce skin irritation.  
• **Eye contact** : May cause eye irritation.  
• **Ingestion** : May cause irritation.  
**NFPA Hazard Ratings** : Health : 1 - CAUTION : May be irritating.  
Flammability : 1 - Combustible if heated.  
Reactivity : 0 - Stable : Not reactive when mixed with water.  
Special Notice Key : -- - ---

### 4 FIRST AID MEASURES

**First aid measures** : If overcome by exposure, remove victim to fresh air immediately. Seek medical advice (show the label where possible).  
• **Inhalation** : Remove casualty to fresh air and keep at rest. Call a physician.  
• **Skin contact** : Wash skin thoroughly with mild soap and water. Seek medical attention if ill effect or irritation develops.  
• **Eye contact** : Immediately flush eyes thoroughly with water for at least 15 minutes. Ensure adequate flushing of eyes by separating eyelids with the fingers. Obtain emergency medical attention if pain, blinking, tears or redness persist.  
• **Ingestion** : Never give anything by mouth to an unconscious person. Rinse mouth with water, do not induce vomiting, call a doctor.  
**Note to physician** : Treat symptomatically.

### 5 FIRE-FIGHTING MEASURES

**Hazardous combustion products** : Incomplete combustion may form carbon monoxide, carbon dioxide, gas.  
• **Suitable extinguishing media** : Carbon dioxide. Dry powder. Foam.

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#### 5 FIRE-FIGHTING MEASURES (continued)

- **Unsuitable extinguishing media** : Use of heavy stream of water may spread fire.
- Protection against fire** : Use self-contained breathing apparatus when in close proximity to fire.
- Special procedures** : Fight fire from safe distance and protected location.

#### 6 ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Eliminate every possible source of ignition. Ensure adequate ventilation. Ventilate confined spaces before entering. Equip cleanup crew with proper protection.
- Environmental precautions** : Prevent entry to sewers and public waters.
- Clean up methods** : Clean up any spills as soon as possible, using an absorbent material to collect it. Take up small spills with dry chemical absorbent. Take up large spills with pump or vacuum. Sweep or shovel spills into appropriate container for disposal. Dispose in a safe manner in accordance with local/national regulations.

#### 7 HANDLING AND STORAGE

- Precautions in handling and storage** : When using, do not eat, drink, or smoke.
- Storage** : Store in dry, cool, well-ventilated area. Provide adequate ventilation to minimize dust and/or vapour concentrations. Keep only in the original container.
- Storage - away from** : Strong oxidizers. Open flame. Sparks. Heat sources. Prolonged exposure to sunlight. Combustible material. Keep away from ignition sources (including static discharges).
- Handling** : Handle in accordance with good industrial hygiene and safety procedures.

#### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protection** : Ensure adequate ventilation.
- **Respiratory protection** : Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
- **Hand protection** : Wear suitable gloves resistant to chemical penetration.
- **Skin protection** : If skin contact or contamination of clothing is likely, protective clothing should be worn.
- **Eye protection** : Chemical goggles or safety glasses.
- **Ingestion** : When using, do not eat, drink, or smoke.
- Industrial hygiene** : Handle in accordance with good industrial hygiene and safety procedures.
- Occupational Exposure Limits** : Molybdenum Disulfide : TLV<sup>©</sup> -TWA [mg/m<sup>3</sup>] : 3 (Respirable)  
Molybdenum Disulfide : TLV<sup>©</sup> -TWA [mg/m<sup>3</sup>] : 10 (Inhalable)

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 °C** : Solid.
- Colour** : Grey-black.
- Odo(u)r** : Odourless.
- Density** : 4800 kg/m<sup>3</sup> (Bulk Density)
- Solubility in water** : Negligible.
- Solubility in oil** : Negligible.
- Flash point [°C] (ASTM D 93)** : None.

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### 9 PHYSICAL AND CHEMICAL PROPERTIES (continued)

Explosion limits : No reliable data available.

Evaporation rate : No reliable data available.

### 10 STABILITY AND REACTIVITY

Stability and reactivity : Stable under normal conditions.

Hazardous decomposition products : Carbon dioxide, carbon monoxide, others.

Materials to avoid : Strong oxidizers.

Conditions to avoid : Open flame. Sparks. Heat sources. Prolonged exposure to sunlight. Combustible material. Keep away from ignition sources (including static discharges).

### 11 TOXICOLOGICAL INFORMATION

Toxicity information : Product not tested. No reliable data available.

• Inhalation : May cause irritation to the respiratory tract.

• Dermal : May produce skin irritation.

• Ocular : May cause eye irritation.

• Ingestion : May cause irritation.

Rat oral LD50 [mg/kg] : Product not tested. No reliable data available.

Rabbit dermal LD50 [mg/kg] : Product not tested. No reliable data available.

### 12 ECOLOGICAL INFORMATION

Ecological effects information : This product has not been tested for environmental effects. Low mobility (soil). Material insoluble in water.

Bioaccumulative potential : Product not tested. No reliable data available.

Persistence - degradability : Product not tested. No reliable data available.

CERCLA (US) : No known reportable quantities.

### 13 DISPOSAL CONSIDERATIONS

General : Dispose in a safe manner in accordance with local/national regulations.

Disposal method : Material, as supplied, is not a U.S. EPA hazardous waste. Some states may regulate the disposal of petroleum and petroleum products. DO NOT INCINERATE AEROSOL CANS. Processing, use, or contamination may make this information inaccurate or incomplete.

### 14 TRANSPORT INFORMATION

DOT (USA) : Not regulated.

### 15 REGULATORY INFORMATION

SARA TITLE III Section 311/312 : None.

SARA TITLE III Section 313 : No known reportable quantities.

New Jersey Right-To-Know : No known reportable quantities.

Carcinogen classification : Not listed by NTP, IARC or OSHA.

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### 15 REGULATORY INFORMATION (continued)

**Other** : Certified Kosher by Tablet K.  
Customers are reminded to check their state list of hazardous chemicals for proper disclosure and reporting of chemical substances.

### 16 OTHER INFORMATION

**Recommended uses and restrictions** : Contact the producer or distributor. See product data sheet for detailed application.

**NOTE** : October 31, 2008: Revised

**Revision** : 2

**Print date** : 31 / 10 / 2008

**Prepared by** : Regulatory Department  
Bel-Ray Company, Inc.

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