



SAFETY DATA SHEET

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Revised edition no : 1

Date : 24 / 1 / 2008

Supersedes : 0 / 0 / 0

Bel-Ray Molyube Spray Coating (Aerosol)

70260

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

Trade name : Bel-Ray Molyube Spray Coating (Aerosol).
Identification of the product : Aerosol lubricant.
Use : See product data sheet for detailed application.
Company identification : Bel-Ray Europe S.A.
Avenue Louise, 304
Bruxelles-Brussel B-1050 BELGIUM
Telephone: +32 (0) 2 201 18 87

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2. HAZARDS IDENTIFICATION

Hazards identification : Extremely flammable. - Irritating to skin. - Harmful : danger of serious damage to health by prolonged exposure through inhalation. - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. - Possible risk of impaired fertility. - Vapours may cause drowsiness and dizziness. May cause eye irritation. May be harmful if absorbed.

Primary route of exposure : Ingestion. Eyes. Skin. Inhalation.

Symptoms relating to use : Symptoms may include dizziness, headache, nausea and loss of co-ordination.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance name	Content	CAS No	EC No	Index No	Classification ***
Butane n-	: 1 to 5 %	106-97-8	203-448-7	601-004-00-0	F+; R12
Hexane	: 50 to 75 %	110-54-3	203-777-6	601-037-00-0	F; R11 Repr. Cat. 3; R62 Xn; R65-48/20 R67 Xi; R38 N; R51-53
Stoddard solvent	: 1 to 5 %	8052-41-3	232-489-3	649-345-00-4	R10 Xn; R65 R67 Xi; R36/38 N; R51-53
Propane	: 10 to 20 %	74-98-6	200-827-9	601-003-00-5	F+; R12
Isobutane	: 5 to 10 %	75-28-5	200-857-2	601-004-00-0	F+; R12

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

4. FIRST AID MEASURES

First aid measures : If overcome by exposure, remove victim to fresh air immediately. Symptoms may include dizziness, headache, nausea and loss of co-ordination. Seek medical advice (show the label where possible).

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4. FIRST AID MEASURES (continued)

- **Inhalation** : In case of accident by 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** : Rinse mouth with water, do not induce vomiting, call a doctor.
- Note to physician** : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Flammable class** : Extremely flammable.
- Hazardous combustion products** : Incomplete combustion may form carbon monoxide, carbon dioxide, gas.
- **Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide.
- **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. Sparks. Heat sources. Prolonged exposure to sunlight. Combustible material. Open flame. Keep away from ignition sources including static discharges.
- Handling** : Take precautionary measures against static discharges. 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.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

- **Hand protection** : For prolonged contact, use nitrile or neoprene gloves or other material resistant to petroleum oils.
- **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** :
 - Propane : TLV[©] -TWA [ppm] : 2500
 - Propane : MAK - Germany [ppm] : 1000
 - Isobutane : TLV[©] -TWA [ppm] : 800
 - Isobutane : OEL (UK)-LTEL [ppm] : 600
 - Isobutane : OEL (UK)-STEL [ppm] : 750
 - Isobutane : MAK - Germany [ppm] : 1000
 - Butane n- : TLV[©] -TWA [ppm] : 800
 - Butane n- : OEL (UK)-LTEL [ppm] : 600
 - Butane n- : OEL (UK)-STEL [ppm] : 750
 - Butane n- : VME - France [ppm] : 800
 - Butane n- : MAK - Germany [ppm] : 1000

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 °C** : Liquid.
- Colour** : Grey.
- Odo(u)r** : Hydrocarbon.
- Density** : 1917 kg/m³
- Solubility in water** : Negligible.
- Solubility in:** : Oil.
- Flash point [°C]** : -104 (-155 °F) (propellant)
- 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** : All heat sources, including direct sunlight. Combustible material. Open flame. Sparks. Keep away from ignition sources including static discharges.

11. TOXICOLOGICAL INFORMATION

- Toxicity information** : Product not tested. No reliable data available.
Possible risk of impaired fertility.
- **Inhalation** : Danger of serious damage to health by prolonged exposure through inhalation. May cause irritation to the respiratory tract and to other mucous membranes. Inhalation may affect the nervous system causing headache, possibly dizziness, nausea,

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11. TOXICOLOGICAL INFORMATION (continued)

- **Dermal** : Irritating to skin. May be harmful if absorbed.
 - **Ocular** : May cause eye irritation.
 - **Ingestion** : May be harmful if swallowed.
 - Rat oral LD50 [mg/kg]** : No reliable data available.
 - Rabbit dermal LD50 [mg/kg]** : No reliable data available.
- weakness, loss of coordination and unconsciousness. Vapours may cause drowsiness and dizziness.

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.

13. DISPOSAL CONSIDERATIONS

- General** : Contents under pressure. Do not incinerate closed containers. Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

- UN No.** : 1950
- Proper shipping name** : UN 1950 Aerosols, 2.1, 5F (contains Hexane)
- **ADR Class** : 2
- **ADR/RID Classification code** : 5 F
- IMDG**
- **Class** : 2.1

15. REGULATORY INFORMATION

- EC Classification** : F+; R12
Xn; 48/20
R67
Xi; R38
N; R51-53
- EC Labelling**
- **Symbol(s)** : Xn : Harmful
F+ : Extremely flammable
N : Dangerous for the environment.
- **R Phrase(s)** : R12 - Extremely flammable.
R38 - Irritating to skin.
R48/20 - Harmful : danger of serious damage to health by prolonged exposure through inhalation.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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15. REGULATORY INFORMATION (continued)

• **S Phrase(s)**

R62 - Possible risk of impaired fertility.
R67 - Vapours may cause drowsiness and dizziness.
: S16 - Keep away from sources of ignition - No smoking.
S23 - Do not breathe the gas.
S23 - Do not breathe spray.
S25 - Avoid contact with eyes.
S36/37 - Wear suitable protective clothing and gloves.
S51 - Use only in well-ventilated areas.
S53 - Avoid exposure - obtain special instructions before use.

16. OTHER INFORMATION

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

List of relevant R phrases

: R10 - Flammable.
R11 - Highly flammable.
R12 - Extremely flammable.
R36/38 - Irritating to eyes and skin.
R38 - Irritating to skin.
R48/20 - Harmful : danger of serious damage to health by prolonged exposure through inhalation.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 - Possible risk of impaired fertility.
R65 - Harmful: may cause lung damage if swallowed.
R67 - Vapours may cause drowsiness and dizziness.

NOTE

: January 16, 2008: New Format

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Bel-Ray Company, Inc.

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: 29 / 1 / 2008

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press.

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