



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Material name** Bel-Ray Blue Tac Chain Lube  
**Product code** 99060  
**Version No.** 1.0  
**Revision Date** 18-June-2010  
**Manufacturer**

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## 2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

**Classification** F+;R12, Xn;R65, Xi;R36/38, R67, N;R51-53

**Risk phrase(s)** R12 Extremely flammable.  
R36/38 Irritating to eyes and skin.  
R65 Harmful: may cause lung damage if swallowed.  
R67 Vapours may cause drowsiness and dizziness.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrase(s)** S1/2 Keep locked up and out of the reach of children.  
S9 Keep container in a well-ventilated place.  
S23 Do not breathe fumes, vapour.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S29 Do not empty into drains.  
S38 In case of insufficient ventilation, wear suitable respiratory equipment.  
S51 Use only in well-ventilated areas.  
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Heptane	142-82-5	10 - 30
LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)	64742-89-8	10 - 30
PROPANE	74-98-6	10 - 30
Butane	106-97-8	<= 10
Cyclohexane	110-82-7	<= 10
Interchangeable base oils, one or more: 64742-58-1, 64741-88-4, 64742-65-0		<= 10
ISOBUTANE	75-28-5	<= 10
N-HEXANE	110-54-3	<= 10
Stoddard solvent	8052-41-3	<= 10

## 4. FIRST-AID MEASURES

<b>Inhalation</b>	Move to fresh air. For breathing difficulties, oxygen may be necessary. Get medical attention, if needed.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Flush eyes immediately with large amounts of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth thoroughly. Do not induce vomiting. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. In the unlikely event of swallowing contact a physician or poison control centre. Never give liquid to an unconscious person.
<b>General advice</b>	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Call a physician if symptoms develop or persist. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>Notes to physician</b>	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Foam. Dry powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Extinguishing media which must not be used for safety reasons</b>	Water.
<b>Unusual fire &amp; explosion hazards</b>	Heat may cause the containers to explode.
<b>Specific hazards</b>	Fire may produce irritating, corrosive and/or toxic gases.
<b>Special protective equipment for fire-fighters</b>	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Structural firefighters protective clothing will only provide limited protection.
<b>Hazardous combustion products</b>	May include oxides of Nitrogen. Carbon monoxide and carbon dioxide.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Fully encapsulating, vapour protective clothing should be worn for spills and leaks with no fire. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapours and spray mists. In case of spills, beware of slippery floors and surfaces.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
<b>Containment procedures</b>	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.
<b>Methods for cleaning up</b>	Prevent product from entering drains. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Pressurised container: Do not pierce or burn, even after use. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not use if spray button is missing or defective. Do not re-use empty containers. Do not breathe dust/fume/gas/mist/vapors/spray. Do not use in areas without adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash thoroughly after handling. Do not empty into drains.
<b>Storage</b>	Keep locked up. Level 1 Aerosol.  Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Refrigeration recommended. Store in a well-ventilated place. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

#### ACGIH

Components	Type	Value	Form
Butane (106-97-8)	TWA	1000.0000 ppm	
Cyclohexane (110-82-7)	TWA	100.0000 ppm	
Heptane (142-82-5)	STEL	500.0000 ppm	
	TWA	400.0000 ppm	
Interchangeable base oils, one or more: 64742-58-1, 64741-88-4, 64742-65-0	STEL	10.0000 mg/m3	Mist.
	TWA	5.0000 mg/m3	Mist.
ISOBUTANE (75-28-5)	TWA	1000.0000 ppm	
PROPANE (74-98-6)	TWA	1000.0000 ppm	
Stoddard solvent (8052-41-3)	TWA	100.0000 ppm	

#### Australia

Components	Type	Value	Form
Butane (106-97-8)	TWA	800.0000 ppm 1900.0000 mg/m3	
Cyclohexane (110-82-7)	STEL	1050.0000 mg/m3	
	TWA	300.0000 ppm 100.0000 ppm 350.0000 mg/m3	
Heptane (142-82-5)	STEL	2050.0000 mg/m3	
	TWA	500.0000 ppm 1640.0000 mg/m3 400.0000 ppm	
Interchangeable base oils, one or more: 64742-58-1, 64741-88-4, 64742-65-0	TWA	5.0000 mg/m3	Mist.
Stoddard solvent (8052-41-3)	TWA	790.0000 mg/m3	

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

**Respiratory protection** If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. In case of insufficient ventilation, wear suitable respiratory equipment.

**Eye protection** Wear safety glasses with side shields (or goggles).

**General** Applicable for industrial settings only: Use personal protective equipment as required. Keep working clothes separately.

**Hygiene measures** When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practices. Wash hands after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Tacky Aerosol
<b>Physical state</b>	Liquid
<b>Form</b>	Aerosol
<b>Colour</b>	Blue.
<b>Odour</b>	Hydrocarbon-like.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Vapour pressure</b>	62.0319 hPa estimated
<b>Density</b>	600 kg/m3
<b>Vapour density</b>	Not available.
<b>Boiling point</b>	-32 °C (-25.6 °F)
<b>Melting point/Freezing point</b>	-189.7 °C (-310 °F) estimated / -189.7 °C (-310 °F) estimated
<b>Solubility (water)</b>	Negligible
<b>Solubility (other)</b>	Oil
<b>Relative density</b>	0.6
<b>Relative density</b>	Not available.

<b>Flash point</b>	-104 °C (-155.2 °F) Pensky-Martens Closed Cup
<b>Flammability limits in air, upper, % by volume</b>	9.5 % v/v estimated
<b>Flammability limits in air, lower, % by volume</b>	1.8 % v/v estimated
<b>Auto-ignition temperature</b>	246 °C (474.8 °F) estimated
<b>VOC</b>	71.5 %
<b>Viscosity</b>	4.5 cSt @ 40 °C (104 °F)
<b>Percent volatile</b>	29.7877 % estimated

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Risk of ignition. Material is stable under normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Materials to avoid</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	Irritants. Nitrogen oxides (NOx). At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Toxicological data

<b>Product</b>	<b>Test results</b>
Bel-Ray Blue Tac Chain Lube (Mixture)	Acute Dermal LD50 Rabbit: 37270 mg/kg estimated Acute Inhalation LC50 Mouse: 777 mg/l estimated Acute Inhalation LC50 Rat: 368 mg/l estimated Acute Inhalation LD50 Mouse: 439 mg/l estimated Acute Oral LD50 Rat: 9627 mg/kg estimated Acute Oral LD50 Wistar rat: 21778 mg/kg estimated Acute Other LD50 Mouse: 1298 mg/kg estimated
<b>Components</b>	<b>Test results</b>
Butane (106-97-8)	Acute Inhalation LC50 Mouse: 680 mg/l 2.00 Hours Acute Inhalation LC50 Rat: 658 mg/l 4.00 Hours
Heptane (142-82-5)	Acute Inhalation LC50 Rat: 103 mg/l 4.00 Hours Acute Inhalation LD50 Mouse: 75 mg/l 2.00 Hours Acute Other LD50 Mouse: 222 mg/kg
ISOBUTANE (75-28-5)	Acute Inhalation LC50 Mouse: 52 mg/l 1.00 Hours

\* Estimates for product may be based on additional component data not shown.

<b>Routes of exposure</b>	Inhalation. Ingestion. Skin contact. Eye contact.
<b>Chronic toxicity</b>	Prolonged or repeated exposure may cause lung injury.
<b>Carcinogenicity</b>	

### IARC Monographs. Overall Evaluation of Carcinogenicity

Stoddard solvent (CAS 8052-41-3) 3 Not classifiable as to carcinogenicity to humans.

<b>Local effects</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Irritating to eyes and skin.
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## 12. ECOLOGICAL INFORMATION

### Ecotoxicological data

<b>Product</b>	<b>Test results</b>
Bel-Ray Blue Tac Chain Lube (Mixture)	EC50 Daphnia: 39906 mg/l 48.00 hours estimated LC50 Fish: 4538 mg/l 96.00 hours estimated
<b>Components</b>	<b>Test results</b>
Heptane (142-82-5)	LC50 Mozambique tilapia (Tilapia mossambica): 375 mg/l 96.00 hours

\* Estimates for product may be based on additional component data not shown.

<b>Ecotoxicity</b>	Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the environment.
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**Environmental Effects** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
**Aquatic toxicity** May cause long-term adverse effects in the aquatic environment.

### 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** Contents under pressure. Do not puncture, incinerate or crush. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

**Waste from residues / unused products** Dispose of in accordance with local regulations.

**Contaminated packaging** Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

#### ADG

**Proper shipping name** Aerosols, flammable  
**Hazard class** 2.1  
**UN Number** 1950

#### IATA

**UN Number** 1950  
**Proper shipping name** Aerosols, flammable  
**Hazard class** 2.1

#### IMDG

**UN Number** 1950  
**Proper shipping name** Aerosols, flammable  
**Hazard class** 2.1



ADG



IATA



IMDG

### 15. REGULATORY INFORMATION

**National regulations** This Material Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.)

#### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no) *
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. OTHER INFORMATION

**Risk phrase(s)** R12 Extremely flammable.  
R36/38 Irritating to eyes and skin.  
R65 Harmful: may cause lung damage if swallowed.  
R67 Vapours may cause drowsiness and dizziness.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Disclaimer**

Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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