MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name **Bel-Ray Moto Chill Racing Coolant**

Product Code 99410

MSDS Number 6427

Version # 1.0

Revision date 06-14-2010

Product use Engine Coolant

Manufacturer information

Bel-Ray Company, Inc.
P.O. Box 526
Farmingdale, NJ 07727
United States of America
+1 732 938 2421
CHEMTREC: +1 703-527-3887 (outside USA)
CHEMTREC: 800-424-9300 (USA)

2. Hazards Identification

Emergency overview Irritating to eyes and skin. This is a consumer care product that is safe for consumers when used according to the label directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and / or swelling upon prolonged or repeated skin contact or eye contact.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation. Skin contact. Eye contact.

Eyes Causes eye irritation.

Skin Irritating to skin.

Inhalation Prolonged inhalation may be harmful. Health injuries are not known or expected under normal use.

Ingestion Do not ingest.

Target organs Kidneys. Central nervous system.

Chronic effects Edema. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage.

Signs and symptoms Narcosis. Decrease in motor functions. Behavioral changes. Edema. Proteinuria.

Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
PROPYLENE GLYCOL	57-55-6	40 - 60
BORIC ACID (HBO2), SODIUM SALT, TETRAHYDRATE	10555-76-7	1 - 2.5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Remove and isolate contaminated clothing and shoes. Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion Rinse mouth thoroughly. Do not induce vomiting. If ingestion of a large amount does occur, call a poison control center immediately. Never give liquid to an unconscious person.

Notes to physician Symptoms may be delayed.

General advice 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.

5. Fire Fighting Measures

Flammable properties Not flammable by OSHA criteria. Not combustible by OSHA criteria.

Extinguishing media

Suitable extinguishing media Water. Water spray. Foam. Dry powder. Carbon dioxide (CO_2).

Fire fighting equipment / instructions Not available.

Specific methods Cool containers exposed to flames with water until well after the fire is out.

Hazardous combustion products Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. In case of spills, beware of slippery floors and surfaces.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use water spray to reduce vapors or divert vapor cloud drift.

Methods for cleaning up Should not be released into the environment. Dike far ahead of spill for later disposal. Avoid dust formation. Wipe up with absorbent material (e.g. cloth, fleece). Following product recovery, flush area with water.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid contact with skin. Avoid contact with eyes. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment.

Storage Keep away from heat, sparks and open flame. Room temperature - normal conditions. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	Type	Value	Form
BORIC ACID (HBO2), SODIUM SALT, TETRAHYDRATE (10555-76-7)	STEL	6.0000 mg/m3	Inhalable fraction.
	TWA	2.0000 mg/m3	Inhalable fraction.

Engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection Avoid contact with eyes. Chemical goggles are recommended.

Skin protection Avoid contact with the skin. Wear suitable protective clothing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations Avoid contact with eyes. Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Liquid.

Color Blue.

Odor	Mild.
Odor threshold	Not available.
Physical state	Liquid
Form	Liquid.
pH	Not available.
Melting point/Freezing point	-74.2 °F (-59 °C) estimated / -74.2 °F (-59 °C) estimated
Boiling point	370.4 °F (188.2 °C) estimated
Flash point	212 °F (100 °C) estimated
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	0.161 hPa estimated
Density	1020 kg/m³
Vapor density	Not available.
Specific gravity	1.02
Relative density	Not available.
Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	699.8 °F (371.111 °C) estimated
Decomposition temperature	Not available.
VOC	60 % estimated
Percent volatile	157.152 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	Irritants. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11. Toxicological Information

Toxicological data

Product	Test Results
Bel-Ray Moto Chill Racing Coolant (Mixture)	Acute Oral LD50 Dog: 16546 mg/kg estimated
	Acute Oral LD50 Guinea pig: 16024 mg/kg estimated
	Acute Oral LD50 Mouse: 20813 mg/kg estimated
	Acute Oral LD50 Rabbit: 15675 mg/kg estimated
	Acute Oral LD50 Rat: 15866 mg/kg estimated
	Acute Other LD50 Mouse: 5774 mg/kg estimated
	Acute Other LD50 Mouse: 15.07 g/kg estimated
	Acute Other LD50 Rat: 12.19 g/kg estimated

Components	Test Results
BORIC ACID (HBO2), SODIUM SALT, TETRAHYDRATE (10555-76-7)	Acute Oral LD50 Rat: 2330 mg/kg
PROPYLENE GLYCOL (57-55-6)	Acute Oral LD50 Dog: 19000 mg/kg
	Acute Oral LD50 Guinea pig: 18400 - 99999 mg/kg
	Acute Oral LD50 Mouse: 23900 - 31800 mg/kg
	Acute Oral LD50 Rabbit: 18000 mg/kg

Components	Test Results
PROPYLENE GLYCOL (57-55-6)	Acute Oral LD50 Rat: 30000 mg/kg
	Acute Other LD50 Mouse: 6630 mg/kg
	Acute Other LD50 Mouse: 17.3 g/kg
	Acute Other LD50 Rat: 6423 mg/kg
	Acute Other LD50 Rat: 14 g/kg

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

Acute effects Causes skin and eye irritation.

Local effects Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Irritating to eyes. Irritating to skin.

Chronic effects Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.

Subchronic effects Kidney injury may occur.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

BORIC ACID (HBO2), SODIUM SALT, TETRAHYDRATE (CAS 10555-76-7)	A4 Not classifiable as a human carcinogen.

Neurological effects Hazardous by OSHA criteria.

Further information Symptoms may be delayed.

12. Ecological Information

Ecotoxicological data

Product	Test Results
Bel-Ray Moto Chill Racing Coolant (Mixture)	EC50 Daphnia: 8709 mg/l 48.00 hours estimated
	LC50 Fish: 32214 mg/l 96.00 hours estimated

Components	Test Results
PROPYLENE GLYCOL (57-55-6)	EC50 Water flea (Daphnia magna): > 10000 mg/l 48.00 hours
	LC50 Fathead minnow (Pimephales promelas): 710 mg/l 96.00 hours

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

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability Not available.

13. Disposal Considerations

Disposal instructions Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

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

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

No

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
Japan	Inventory of Existing and New Chemical Substances (ENCS)	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)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

PROPYLENE GLYCOL (CAS 57-55-6) Listed.

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 2*
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 1
Instability: 0

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.

Issue date

06-14-2010