MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 790

Product name X-L 2000 Anti-Seize Lubricant

Effective date 10-Jan-2013
Company information Ricmar Industries 889 N. Larch

Elmhurst, IL 60126 United States

Company phone General Assistance 800-323-0779

Emergency telephone US 1-866-836-8855 Emergency telephone outside US 1-952-852-4646

Version # 01

Supersedes date 08-Nov-2012

2. Hazards Identification

Emergency overview Aerosol. Highly flammable. CONTENTS UNDER PRESSURE.

Harmful in contact with eyes. Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure Eye contact. Inhalation. Skin contact. Ingestion.

Eyes Contact with eyes may cause irritation.

Skin Frequent or prolonged contact may defat and dry the skin, leading to discomfort and

dermatitis

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Prolonged inhalation may be harmful.

Ingestion Exposure by ingestion of an aerosol is unlikely. Components of the product may be

absorbed into the body by ingestion.

Target organs Central nervous system. Kidneys. Liver. Lungs.

Chronic effects Conjunctiva. Liver injury may occur. 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. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause delayed lung

injury.

Signs and symptoms Discomfort in the chest. Narcosis. Coughing. Liver enlargement. Jaundice. Conjunctivitis.

Defatting of the skin. Skin irritation.

3. Composition / Information on Ingredients

Components	CAS#	Percent
n-Butane	106-97-8	20 - 30
Acetone	67-64-1	15 - 20
Propane	74-98-6	10 - 15
Copper	7440-50-8	10 - 15
Synthetic Isoparaffinic Hydrocarbon	64741-66-8	8 - 10
Synthetic Isoparaffinic Hydrocarbon	64742-47-8	5 - 8
Non-hazardous and other components below reportable levels		10 - 20

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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 immediately.

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Skin contact Immediately flush skin with plenty of water. Remove and isolate contaminated clothing

and shoes. Get medical attention immediately. For minor skin contact, avoid spreading

material on unaffected skin. Wash clothing separately before reuse.

Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth Inhalation

method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Get medical attention, if needed.

Ingestion If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do

not induce vomiting without advice from poison control center. 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. If ingestion of a large amount does occur, call a poison control center

immediately.

Notes to physician Symptoms may be delayed.

5. Fire Fighting Measures

Flammable properties Protection of firefighters Protective equipment and

precautions for firefighters

Runoff to sewer may cause fire or explosion hazard.

In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

6. Accidental Release Measures

Methods for containment

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk.

Methods for cleaning up

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

Handling

Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Do not re-use empty containers. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure.

Storage

Contents under pressure. The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Level 3 Aerosol.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS#	TWA	STEL	Ceiling
n-Butane	106-97-8	1000 ppm	Not established	Not established
Acetone	67-64-1	500 ppm	750 ppm	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Copper	7440-50-8	0.2 mg/m3	Not established	Not established

OSHA

Components	CAS#	TWA	STEL	Ceiling
Acetone	67-64-1	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Copper	7440-50-8	0.1 mg/m3	Not established	Not established

Personal protective equipment

Eye / face protection Chemical goggles are recommended.

Skin protection Wear appropriate chemical resistant clothing. Chemical resistant gloves.

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Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties

Appearance Viscous.

645.8 °F (341.1 °C) estimated **Boiling point**

Color Concrete gray, brown 1.6912 g/cm3 estimated Density Flammability (HOC) 28.4892 kJ/g estimated

Flash back Νo

-156 °F (-104.4 °C) Propellant Flash point

Form Aerosol. Not available Freezing point Solvent. Odor Liquid. Physical state **Pressure** 50 @70'F Solubility Partially

Specific gravity 1.6914 estimated

10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition.

Conditions to avoid Avoid high temperatures.

No hazardous decomposition products are known. Hazardous decomposition products

11. Toxicological Information

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Acetone 67-64-1 Oral LD50 Rat 5800 mg/kg n-Butane 106-97-8 Inhalation LC50 Rat 658 mg/L 4 h Propane 74-98-6 Inhalation LC50 Rat 658 mg/L 4 h

Synthetic Isoparaffinic 64741-66-8 Inhalation LC50 Rat >5.04 mg/L 4 h; Oral LD50 Rat >7000 mg/kg; Dermal LD50

Hydrocarbon Rabbit >2000 mg/kg

Synthetic Isoparaffinic 64742-47-8 Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50

Hydrocarbon Rabbit >2000 mg/kg

12. Ecological Information

Components of this product are hazardous to aquatic life. **Ecotoxicity**

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F

Contents under pressure. Dispose of this material and its container to hazardous or **Disposal instructions**

special waste collection point. Do not incinerate sealed containers. If discarded, this

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product is considered a RCRA ignitable waste, D001.

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14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name Aerosols 21 **Hazard class** UN1950 **UN number**

Additional information:

153. N82 Special provisions 306 Packaging exceptions None Packaging non bulk Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity **Further information**

and may be shipped as a limited quantity. Until 12/31/2013, the "Consumer Commodity -ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/13 and may be used now in place of the "Consumer

Commodity ORM-D" marking but not concurrently.

IMDG

Basic shipping requirements:

Proper shipping name **AEROSOLS**

Hazard class 2.1 1950 **UN number**

Additional information:

LTD QTY Packaging exceptions Labels required None



IATA

Basic shipping requirements:

Proper shipping name Aerosols, flammable

Hazard class 2.1 **UN number** 1950

Additional information:

LTD QTY Packaging exceptions 2.1 Labels required



15. Regulatory Information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US** federal regulations

Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Copper 7440-50-8 1.0 % de minimis concentration

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

CERCLA (Superfund) reportable quantity

Acetone: 5000.0000 Copper Powder: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely No

hazardous substance

Section 311 hazardous chemical Yes

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Product name: X-L 2000 Anti-Seize Lubricant MSDS US 4/5 Hazard categories (311/312) Immediate Hazard - Yes

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

Inventory status

Country(s) or region Inventory name On inventory (yes/no)* China Inventory of Existing Chemical Substances in China (IECSC) No Europe European Inventory of New and Existing Chemicals (EINECS) No European List of Notified Chemical Substances (ELINCS) Europe No Inventory of Existing and New Chemical Substances (ENCS) Japan No Korea Existing Chemicals List (ECL) No 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 WARNING: This product contains a chemical known to the State of California to cause

cancer.

U.S. - Pennsylvania - RTK (Right to Know) List

Acetone 67-64-1 Environmental hazard

Copper 7440-50-8 Environmental hazard (dust and fume)

n-Butane 106-97-8 Present
Propane 74-98-6 Present
Synthetic Isoparaffinic 64742-47-8 Present
Hydrocarbon

16. Other Information

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

HMIS® ratings Health: 1

Flammability: 3 Physical hazard: 0 Personal protection:

Disclaimer 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. The information in the sheet was written based on the best knowledge and

experience currently available.

Prepared by Regulatory Compliance

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