

Material Safety Data Sheet

Revision Date 19-Jul-2012

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code DA8060
Product name BRRR-Eaker
Recommended Use Lubricant

Supplier Drummond, A Lawson Brand
Lawson Products, Inc.
8770 W.Bryn Mawr Ave.- Suite 900
Chicago, IL 60631
1-866-529-7664

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Flammable. Harmful by inhalation. May cause eye/skin irritation.
Contents under pressure. CONTAINER MAY EXPLODE IF HEATED .

Aggravated Medical Conditions

Asthma. Allergies.

Principal Routes of Exposure

Eyes. Skin contact. Inhalation. Ingestion.

Potential health effects

Eyes Contact with eyes may cause irritation. Causes burns. Frostbite. Pain. Tearing. Redness. Conjunctivitis.

Skin May cause the following effects: . Skin Irritation. Frostbite. Skin burns. Repeated or prolonged exposure may cause:. May cause skin irritation. Exposure can dry the skin.

Inhalation Harmful by inhalation. May cause irritation of respiratory tract. Possible asphyxiation. May cause the following effects. Drowsiness . Dizziness. Aspiration hazard. Chemical pneumonitis.

Ingestion No hazard under normal industrial and institutional use. May be harmful if swallowed. Aspiration hazard. May cause severe lung damage if aspirated into the lungs from ingestion or vomiting.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
1,1-Difluoroethane	75-37-6	60-100
Methylisobutyl ketone	108-10-1	1-5
Oleic Acid	112-80-1	1-5

4. FIRST AID MEASURES

General advice S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this safety data sheet to the doctor in attendance.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.

Skin contact Wash off immediately with plenty of water. Remove contaminated clothing and footwear. Wash contaminated clothing before re-use. Seek medical attention if irritation persists.

Ingestion Do Not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to physician Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

5. FIRE FIGHTING MEASURES

Flash point °C -58
Flash point °F -72
Method Tag Closed Cup

Autoignition temperature °C No data available
Autoignition temperature °F No data available

Flammability Limits (% in Air)
Upper No data available
Lower No data available

Suitable extinguishing media

Dry powder. Foam. Carbon dioxide.

Extinguishing media which must NOT be used for safety reasons

Do not use water. Do not use a solid water stream as it may scatter and spread fire .

Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Special Fire-Fighting Procedures

Keep people away from and upwind of spill/leak.

Specific hazards

Flammable .

Fire and Explosion Hazards

CONTAINER MAY EXPLODE IF HEATED . Vapors are heavier than air and may travel along the ground to an ignition source distant from material handling area. Possible ignition sources include pilot lights, flames, lighted cigarettes, heating elements, electric motors, sparks from electrical switches.

Hazardous decomposition products

See Section 10.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Keep people away from and upwind of spill/leak. Remove all sources of ignition.

Environmental precautions

Concentrated vapors of this product are heavier than air and will collect in low areas, pits, storage tanks and other confined spaces. Do not enter those areas. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Evacuate area of unprotected and unnecessary personnel. Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Eliminate all sources of ignition. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use caution as spill may create a slip hazard. Clean up promptly by sweeping or vacuum. Place in suitable container for disposal as hazardous waste. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. Allow to evaporate.

7. HANDLING AND STORAGE**Handling**

Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Avoid contact with skin and eyes. Do not swallow. Do not breathe vapors or spray mist. Avoid breathing fumes. Use in a well ventilated area. Handle and open container with care. When using, do not eat, drink or smoke. Wash hands with soap and water before eating, drinking, smoking, or using toilet facilities. Do not puncture or incinerate.

Storage

Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Store in temperatures below 120 degrees F (50 degrees C) .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)

1,1-Difluoroethane	-	-	-	-
Methylisobutyl ketone	100 ppm 410 mg/m ³	-	20 ppm	75 ppm
Oleic Acid	-	-	-	-

Ventilation and Environmental Controls

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits.

Hygiene measures

General industrial hygiene practice. When using, do not eat, drink or smoke. A safety shower and eye wash station should be available for emergency use.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Hand Protection

Protective gloves.

Eye protection

S39 - Wear eye/face protection. Use safety eyewear designed to protect against splash of liquids.

Skin and body protection

Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Color	Colorless - Light yellow
Odor	Characteristic
Odor Threshold	No information available
pH	Not Applicable
Specific Gravity	0.91
Vapor pressure	No data available
Vapor density	>1 (Air = 1)
Evaporation Rate	No data available
Water solubility	Negligible
VOC Content	4.8%
Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °C	No data available
Boiling point/range °F	No data available
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	-58
Flash point °F	-72

10. STABILITY AND REACTIVITY**Stability**

Stable under normal conditions. Heating may cause an explosion.

Conditions to avoid

Avoid heat. Do not store or use near incompatible materials.

Incompatibility

Oxidizers. Bases. Alkali metals.

Hazardous Decomposition Products

Carbon oxides. Hydrofluoric acid. Carbonyl Fluoride.

Polymerization

Stable under normal storage conditions.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
1,1-Difluoroethane 75-37-6	-	-	-
Methylisobutyl ketone 108-10-1	2080 mg/kg	16000 mg/kg	8.2 mg/L
Oleic Acid 112-80-1	25 g/kg	-	-

Synergistic Products None known**Potential health effects**

Sensitization None known

Chronic toxicity See Section 2 .

Mutagenic effects None known

Teratogenic effects None known

Reproductive toxicity None known

Target Organ Effects See Section 2

Carcinogenic effects See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
1,1-Difluoroethane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Methylisobutyl ketone	A3	Group 2B	Not Listed	Not Listed	Listed
Oleic Acid	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Methylisobutyl ketone

Microtox Data*Photobacterium phosphoreum* EC50=79.6 mg/L (5 min)**Water Flea Data***Daphnia magna* EC50=170 mg/L (48 h)**Aquatic toxicity** Harmful to aquatic organisms Do not let product enter drains**13. DISPOSAL CONSIDERATIONS****Waste from residues / unused products**

Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION**DOT**

UN1950 Aerosols, flammable, 2.1.

Exception: (Compressed Gas not more than 1.0L) Consumer Commodity ORM-D**TDG**

UN1950 AEROSOLS, flammable, 2.1

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Methylisobutyl ketone	Listed

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
1,1-Difluoroethane	Listed	Not Listed	Not Listed
Methylisobutyl ketone	Listed	Listed	Carcinogen
Oleic Acid	Not Listed	Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
1,1-Difluoroethane	X	X	-	X
Methylisobutyl ketone	X	X	-	X
Oleic Acid	X	X	-	X

CPR

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION**NFPA**

Health - 2
Flammability - 3
Reactivity - 0

HMIS**Health** - 2

Product code **DA8060**

Product name **BRRR-Eaker**

16. OTHER INFORMATION

Flammability - 3

Physical Hazard - 0

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The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.