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Revision Number 1

1. IDENTIFICATION

Product identification

Product identifier Drummond™ Brr-Eaker Rust Breaking Penetrant
Other means of identification DA8060
Recommended use Penetrant
Restrictions on use For industrial use only

Supplier

Corporate Headquarters:
Drummond™, A Lawson Brand
Lawson Products, Inc.
8870 W. Bryn Mawr Ave., Suite 900
Chicago, IL 60631
(866) 837-9908

Canadian Distribution Center:
Lawson Canada
7315 Rapistan Court
Mississauga, ON L5N 5Z4
(800) 323-5922

24 Hour Emergency Phone Number (888) 426-4851 (Prosar)

2. HAZARD(S) IDENTIFICATION

Hazard Classification

Carcinogenicity	Category 2
Gases under pressure	Liquefied Gas

Symbol



Signal word WARNING

Hazard statements H280 - Contains gas under pressure; may explode if heated
H351 - Suspected of causing cancer

Precautionary statements

General P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P103 - Read label before use.

Ingestion	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Skin contact	If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and footwear.
Eye contact	Remove contact lenses. Protect the unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Flush with plenty of water for at least 15 minutes.
Most important symptoms (acute)	Do not leave victim unattended. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
Most important symptoms (over-exposure)	Not available.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Dry powder. Foam. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Full water jet.
Specific hazards	Do not allow run-off from fire fighting to enter drains or water courses. Hazardous Thermal Decomposition Products: Carbon dioxide. Carbon monoxide. smoke. Fluorine compounds. silicon oxides. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protection recommended in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Remove all sources of ignition. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up	Vacuum or sweep up material and place in a designated, labeled waste container. Absorb with earth, sand, or another dry inert material.

7. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with eyes. Avoid skin contact. Use personal protection recommended in Section 8. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage, including any incompatibilities	Beware: Aerosol is pressurized. Keep away from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Store at temperatures not exceeding 50 °C/ 122 °F. Do not open by force or throw into fire even after use. Do not spray on flames or

red-hot objects. Store in a cool, dry, and well-ventilated place. Electrical installations and working materials must comply with the technological safety standards. Store away from oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
1,1-Difluoroethane	-	-	-
Oleic Acid	-	-	-
Methylisobutyl ketone	100 ppm TWA 410 mg/m ³ TWA	75 ppm STEL 20 ppm TWA	75 ppm STEL 300 mg/m ³ STEL 50 ppm TWA 205 mg/m ³ TWA

Appropriate engineering controls Not available.

Individual protection measures, such as personal protective equipment

- Eye protection** Safety glasses.
- Skin and body protection** Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures** When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

Canadian Province Occupational Exposure Limits

Chemical name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick - OEL	Newfoundland and Labrador - OEL	Nova Scotia - OEL	Ontario OEL	Prince Edward Island - OEL	Quebec OEL	Saskatchewan - OEL
1,1-Difluoroethane	-	-	-	-	-	-	-	-	-	-
Oleic Acid	-	-	-	-	-	-	-	-	-	-
Methylisobutyl ketone	75 ppm STEL 307 mg/m ³ STEL 50 ppm TWA 205 mg/m ³ TWA	75 ppm STEL 20 ppm TWA	20 ppm TWA 75 ppm STEL	75 ppm STEL 307 mg/m ³ STEL 50 ppm TWA 205 mg/m ³ TWA	75 ppm STEL 20 ppm TWA	75 ppm STEL 20 ppm TWA	75 ppm STEL 20 ppm TWA	75 ppm STEL 20 ppm TWA	75 ppm STEV 307 mg/m ³ STEV 50 ppm TWA 205 mg/m ³ TWA	75 ppm STEL 50 ppm TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** Aerosol
- Color** Colorless
- Odor** Solvent

Odor threshold	Not available
pH	Not available
Melting point/range °C	Not available
Melting point/range °F	Not available
Boiling point/range °C	Not available
Boiling point/range °F	Not available
Flash point °C / °F	Not available
Flash point method used	Not available
Evaporation rate	Not available
Flammability (Solid, Gas)	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	0.91
Solubility	Not available
Partition coefficient (n-octanol/water)	Not available
Autoignition temperature °C	Not available
Autoignition temperature °F	Not available
Decomposition temperature °C	Not available
Decomposition temperature °F	Not available
Viscosity	Not available

10. STABILITY AND REACTIVITY

Reactivity	Stable.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing. Vapors may form explosive mixtures with air.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Incompatible with oxidizing agents. Bases. Alkaline earth metals.

Hazardous decomposition products carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Dermal. Eyes.

Symptoms May cause skin irritation. Dermatitis. Vapors may cause irritation to the eyes, respiratory system and the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure No known significant effects or critical hazards.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
1,1-Difluoroethane	-	-	-
Oleic Acid	-	-	= 25 g/kg (Rat) > 5000 mg/kg (Rat)
Methylisobutyl ketone	= 8.2 mg/L (Rat) 4 h	= 3000 mg/kg (Rabbit)	= 2080 mg/kg (Rat)

ATEmix (dermal) Not available

ATEmix (oral) Not available

ATEmix (inhalation-gas) Not available

ATEmix (inhalation-vapor) Not available

ATEmix (inhalation-dust/mist) Not available

Carcinogenicity

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA RTK Carcinogens	NTP
1,1-Difluoroethane	-	-	-	-
Oleic Acid	-	-	-	-
Methylisobutyl ketone	A3	Group 2B	Listed	-

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
1,1-Difluoroethane	-	-	-	-	-	-
Oleic Acid	-	-	-	-	-	-
Methylisobutyl ketone	-	IARC 2B	ACGIH A3	-	ACGIH A3	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish
1,1-Difluoroethane	-	-
Oleic Acid	-	205: 96 h Pimephales promelas mg/L LC50 static
Methylisobutyl ketone	400: 96 h Pseudokirchneriella subcapitata mg/L EC50	496 - 514: 96 h Pimephales promelas mg/L LC50 flow-through

Persistence and degradability Not available.

Bioaccumulation Not available

Chemical name	CAS-No	Partition coefficient (log Kow)
1,1-Difluoroethane 75-37-6	75-37-6	-
Oleic Acid 112-80-1	112-80-1	-
Methylisobutyl ketone 108-10-1	108-10-1	1.19

Mobility in soil Not available.

Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal Harmful to aquatic life with long lasting effects

13. DISPOSAL CONSIDERATIONS

Disposal information Dispose of in accordance with federal, state and local regulations. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging Empty remaining contents. Dispose of as unused product. Do not reuse containers. Do not burn, or use a cutting torch on, the empty drum.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.2
 Packing group
 Special Provisions LTD QTY

TDG

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.2
 Packing group
 Special Provisions LTD QTY

IATA

ID-No UN1950
Proper shipping name Aerosols, non-flammable
Hazard Class(es) 2.2
Subsidiary Risk
Packing group
Special Provisions LTD QTY

IMDG/IMO

ID-No UN1950
Proper shipping name Aerosols
Hazard Class(es) 2.2
Packing group
Special Provisions LTD QTY

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
1,1-Difluoroethane	75-37-6	-	-	-
Oleic Acid	112-80-1	-	-	-
Methylisobutyl ketone	108-10-1	-	-	-

Special Precautions

Multi-modal shipping descriptions are provided for informational purposes and do not consider container size. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

15. REGULATORY INFORMATION

State regulations

U.S. state Right-to-Know regulations

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
1,1-Difluoroethane	75-37-6	X	X	-
Oleic Acid	112-80-1	-	-	X
Methylisobutyl ketone	108-10-1	X	X	X

California Prop. 65

Chemical name	CAS-No	California Prop. 65
1,1-Difluoroethane	75-37-6	-
Oleic Acid	112-80-1	-
Methylisobutyl ketone	108-10-1	Carcinogen Developmental

U.S. Federal Regulations

US EPA SARA 313

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
1,1-Difluoroethane	75-37-6	-	-
Oleic Acid	112-80-1	-	-
Methylisobutyl ketone	108-10-1	5000 lb 2270 kg	1.0 %

US EPA SARA 311/312 hazardous categorization

Chronic Health Hazard
Sudden Release of Pressure Hazard

International inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA 8(b)), Canada (DSL/NDSL) or are exempt.

Chemical name	DSL/NDSL	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification
1,1-Difluoroethane	X	X	-
Oleic Acid	X	X	-
Methylisobutyl ketone	X	X	-

Legend X - Listed

16. OTHER INFORMATION

NFPA

Health 3
Flammability 1
Instability 0

HMIS

Health 3 *
Flammability 0
Physical hazards 2
Personal protection To be determined by customer.

Notice: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

Prepared by Regulatory Affairs

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Revision note

Key to abbreviations

ACGIH (American Conference of Governmental Industrial Hygienists)
ATE (Average Toxicity Estimate)
DSL/NDSL (Domestic Substance List/Non-Domestic Substance List)
HMIS (Hazardous Materials Identification System)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG/IMO (International Maritime Dangerous Goods/International Maritime Organization)
NFPA (National Fire Protection Association)
NTP (National Toxicology Program)
OEL (Occupational Exposure Level)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEL (Permissible Exposure Limit)
TSCA (Toxic Substance Control Act)
USEPA (United States Environmental Protection Agency)

Disclaimer

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.

End of Safety Data Sheet