

Issue Date 12/27/2013

Revision Date 11/12/2014

Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name d-Greaz

Other means of identification

Product Code 5105

Details of the supplier of the safety data sheet

Company Name Blue Cardinal Chemical, LLC
3670 Scarlet Oak Blvd.
St. Louis, MO 63122
800-325-3312

Emergency telephone number

Emergency Telephone CHEMTEL 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

Dissolved Gas	H315
Flammable Aerosol	Category 2
Eye Irritant	Category 2b
Aspiration Hazard	Category 1

Label elements

Emergency Overview

DANGER

Hazard statements

Flammable Aerosol.

Contains gas under pressure; May explode if heated.

Causes eye irritation. May be fatal if swallowed and enters airways.



Appearance: Clear Spray

Physical state: Liquefied gas

Odor: Citrus-petroleum



Precautionary Statements - Prevention

Keep away from heat, sparks, open flames, and hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Wash hands thoroughly after handling. Safety glasses and chemical resistant gloves.

Precautionary Statements - Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.

Precautionary Statements - Storage

Store in a well-ventilated place. Store locked up.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, state, and national regulations.

Hazards not otherwise classified (HNOC)**Other Information**

• N/A

Unknown Acute Toxicity 0%

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET
1,8-p-Menthadiene	5989-27-5	5-10%	*
Petroleum Distillates, hydrotreated light	64742-47-8	60-100%	*
Carbon Dioxide	124-38-9	1-5%	*
Propane	68476-86-8	1-5%	*

***The exact percentage (concentration) of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES**First aid measures**

General Advice	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation	Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention.
Skin Contact	Wash thoroughly with soap and water.
Eye Contact	Remove contact lenses. Flush with water for at least 15 minutes. See a physician if irritation persists.
Ingestion	If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.

Most important symptoms and effect, both acute and delayed

Symptoms	CHRONIC HEALTH HAZARDS: None Known ACUTE HEALTH HAZARDS: Eye: stinging, tearing, redness Oral: Aspiration risk Skin: Prolonged or repeated contact may dry skin
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Indication of any immediate medical attention and special treatment needed

Note to physicians	There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide and foam (NFPA Class B Extinguishers).

Unsuitable extinguishing media: Water spray/stream.

Protective equipment and precautions for firefighters

Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Avoid contact with skin and breathing smoke, fumes, and decomposition products. Cool fire exposed containers with water fog to prevent bursting. Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

Hazardous Combustion Products

None Known.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Refer to section VIII for proper Personal Protective Equipment.

Methods and material for containment and cleaning up

Methods for containment & cleaning up

Eliminate all sources of ignition. absorb liquid with non-combustible material like vermiculite, sand or earth and clean up with mop or rag.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use.

Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a well ventilated place. Store locked up. Keep out of the reach of children.

Incompatibility

Strong oxidizing agents. Strong reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
1,8-p-Menthadiene	N/A	N/A
Petroleum Distillates, hydrotreated light	0.5 mg/m3	0.5 mg/m3
Carbon Dioxide	5000 ppm	5000 ppm
Propane	1000 ppm	1000 ppm

Appropriate engineering controls

Engineering Controls

General ventilation adequate but local exhaust/ventilation preferred.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment	Safety glasses and chemical resistant gloves.
Respiratory protection	Wear NIOSH/MSHA approved respiratory protection if used in confined, poorly ventilated areas.
General Hygiene	Wash hands and clothing in contact with product after use.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquefied Gas
Appearance	Clear Spray
Color	Clear
Odor	Citrus-petroleum
Odor Threshold	1ppm
<u>Property</u>	<u>Values</u>
BOILING POINT	> 350°F
FREEZING POINT	N/D
FLAMMABILITY	Flammable Aerosol
FLASH POINT	N/D
AUTOIGNITION TEMPERATURE	N/D
LOWER FLAMMABILITY LIMIT	N/D
UPPER FLAMMABILITY LIMIT	N/D
VAPOR PRESSURE (mm Hg)	30 @ 77°C
VAPOR DENSITY (AIR=1)	4.7
EVAPORATION RATE	< 1
SPECIFIC GRAVITY (H2O=1)	0.81@ 77° F (25° C)
pH	N/A
SOLIDS (%)	N/D
SOLUBILITY IN WATER	100%
PARTITION COEFFICIENT: n-OCTANOL/WATER (KOW)	N/D
VOLATILITY INCLUDING WATER (%)	13%
VOLATILE ORGANIC COMPOUNDS (VOC)	9.7%
DIELECTRIC STRENGTH (Volts)	N/A
DECOMPOSITION TEMPERATURE	N/D
VISCOSITY	N/D

10. STABILITY AND REACTIVITY**Reactivity**

If exposed to strong oxidizers, presents explosion hazard.

Chemical Stability

Stable.

Possibility Of Hazardous Reactions

None known.

Conditions to avoid

None known.

Incompatible Materials

Strong oxidizing agents. Strong reducing agents.

Hazardous Decomposition Products

Carbon monoxide and unidentified organic compounds may be formed during combustion.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure** Eyes, Ingestion, Inhalation, Skin**Product Information**

Skin Contact	May cause mild irritation, localized defatting, dryness.
Eye Contact	Causes irritation.
Inhalation	Causes dizziness.
Ingestion	Causes gastrointestinal irritation, nausea, diarrhea, vomiting.

Information on toxicological effects

Symptoms	MEDICAL CONDITION AGGRAVATED: Pre-existing disorders of the skin, respiratory system, and eyes will be aggravated by over exposure. CHRONIC HEALTH HAZARDS: None Known ACUTE HEALTH HAZARDS: Eye: stinging, tearing, redness Oral: Aspiration risk Skin: Prolonged or repeated contact may dry skin
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	OSHA: No	ACGIH: No	NTP: No	IARC: No	OTHER: N/A
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12. ECOLOGICAL INFORMATION**Ecotoxicity**

Not Established.

Persistence and Degradability

This product is biodegradable.

Bioaccumulation

This product is not expected to bioaccumulate.

Soil Mobility

This product is mobile in soil.

Other Ecological Hazards

None known.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal of Wastes	Dispose of in accordance with federal, state, and local regulations.
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RCRA Status

Product should be fully characterized prior to disposal (40 CFR 261).

14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT

UN/ID No.	<i>UN 1950</i>
Proper Shipping Name	<i>Aerosols, Ltd. Qty.</i>
Hazard Class	<i>2.1</i>
Packing Group	<i>N/A</i>

AIR SHIPMENT

UN/ID No.	<i>UN 1950</i>
Proper Shipping Name	<i>Aerosols, Ltd. Qty.</i>
Hazard Class	<i>2.1</i>

SHIPPING BY WATER**VESSEL (IMO/IMDG)**

UN/ID No.	<i>UN 1950</i>
Proper Shipping Name	<i>Aerosols, Ltd. Qty.</i>
Hazard Class	<i>2.1</i>
Environmental Hazards Water	<i>N/A</i>

15. REGULATORY INFORMATION**International Inventories**

TSCA All Chemicals are listed or exempt.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT)

None.

SARA 311/312 HAZARD CATEGORIES

None.

SARA 313 REPORTABLE INGREDIENTS

None.

CLEAN WATER ACT

None.

INTERNATIONAL REGULATIONS

All components are listed or exempted.

16. OTHER INFORMATION

NFPA	Health hazards	1	Flammability	2	Reactivity	0	Other	None
HMIS	Health hazards	1	Flammability	2	Reactivity	0	Personal protection	A

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Revision Note

N/A = Not Applicable; N/D = Not Determined

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.

End of Safety Data Sheet