



SAFETY DATA SHEET

Issuing Date 18-Jun-2013

Revision Date 18-Jun-2013

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name Cold Spray

Other means of identification

Product Code(s) 033627, 033632

UN-Number UN 1950

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Spray on skin for temporary cooling

Uses advised against No information available

Supplier's details

Supplier Address

Cramer Products, Inc.
153 W. Warren
Gardner, KS 66030
TEL: 913.856.7511

Emergency telephone number

Emergency Telephone Number 913.856.7511

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

| | |
|--------------------|------------|
| Simple Asphyxiant | Yes |
| Flammable aerosols | Category 1 |

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word

Danger

Hazard Statements

- May displace oxygen and cause rapid suffocation
- Extremely flammable aerosol



Appearance Clear

Physical State Aerosol.

Odor None

Precautionary Statements

Prevention

- Keep away from heat/sparks/open flames/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
- Wear protective gloves
- Wear eye/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area

General Advice

- None

Storage

- Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
- Store in a well-ventilated place. Keep container tightly closed

Disposal

- Dispose of in accordance with local/regional/national regulations.

Hazard Not Otherwise Classified (HNOC)

May cause frostbite.

Other information

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % | Trade secret |
|---------------------------------------|------------|----------|--------------|
| Petroleum gases, liquified, sweetened | 68476-86-8 | 60-100 | * |
| Isopropyl alcohol | 67-63-0 | 1-5 | * |

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

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Consult a physician.

| | |
|---------------------|---|
| Skin Contact | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. If symptoms persist, call a physician. |
| Inhalation | Move to fresh air. Administer oxygen if breathing is difficult and you are trained. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a physician or Poison Control Center immediately. |
| Ingestion | Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician. |

Most important symptoms/effects, acute and delayed**Most Important Symptoms/Effects** Difficulty in breathing. Frostbite.**Indication of immediate medical attention and special treatment needed, if necessary****Notes to Physician** Treat symptomatically.**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.**Specific Hazards Arising from the Chemical**

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Explosion Data

| | |
|---|------|
| Sensitivity to Mechanical Impact | Yes. |
| Sensitivity to Static Discharge | Yes. |

Protective Equipment and Precautions for Firefighters

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

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions Remove all sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Contents under pressure. Do not puncture or incinerate cans.

Environmental Precautions**Environmental Precautions** See Section 12 for additional Ecological Information**Methods and materials for containment and cleaning up****Methods for Containment** Prevent further leakage or spillage if safe to do so.**Methods for Cleaning Up** Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal. Ground and bond containers when transferring material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Contents under pressure. Do not puncture or incinerate cans. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Wear personal protective equipment. Ensure adequate ventilation. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight.

Incompatible Products Strong oxidizing agents. Acids. Acid anhydrides. Aluminum. Halogenated compounds.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------------------|-------------------------------|---|---|
| Isopropyl alcohol 67-63-0 | STEL: 400 ppm TWA: 200 ppm | TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³ | IDLH: 2000 ppm 10% LEL TWA: 980 mg/m ³ TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m ³ |

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles. If splashes are likely to occur, wear: Face-shield.
Skin and Body Protection Impervious gloves. Impervious clothing. Boots.
Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|---------|-----------------------|--------------------------|
| Physical State | Aerosol | Appearance | Clear |
| Odor | None | Odor Threshold | No information available |

| | | |
|----------------------------|-------------------|--------------------------|
| Property | Values | Remarks/ - Method |
| pH | No data available | None known |
| Melting Point/Range | No data available | None known |

| | | |
|---|--------------------|------------|
| Boiling Point/Boiling Range | No data available | None known |
| Flash Point | No data available | None known |
| Evaporation rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limits in Air | | |
| upper flammability limit | No data available | |
| lower flammability limit | No data available | |
| Vapor Pressure | No data available | None known |
| Vapor Density | No data available | None known |
| Relative Density | No data available | None known |
| Specific Gravity | No data available. | None known |
| Water Solubility | No data available | None known |
| Solubility in other solvents | No data available | None known |
| Partition coefficient: n-octanol/water | No data available | None known |
| Autoignition Temperature | No data available | None known |
| Decomposition Temperature | No data available | None known |
| Viscosity | No data available | None known |

Flammable Properties Extremely flammable.

Explosive Properties No data available

Oxidizing Properties No data available

Other information

VOC Content (%) No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight.

Incompatible materials

Strong oxidizing agents. Acids. Acid anhydrides. Aluminum. Halogenated compounds.

Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No acute toxicity information is available for this product. Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several ingredients.

| | |
|---------------------|---|
| Inhalation | Deliberately inhaling or exposure to high concentrations may cause simple asphyxiation (suffocation by displacing the oxygen in the air). |
| Eye Contact | May cause irritation. |
| Skin Contact | Contact with product may cause frostbite. |
| Ingestion | Not an expected route of exposure. May be harmful if swallowed. |

Toxicology data for the components

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------------|----------------------|---|-----------------------|
| Isopropyl alcohol | = 4396 mg/kg (Rat) | 12800 mg/kg (Rat) 12870 mg/kg (Rabbit) | 72.6 mg/L (Rat) 4 h |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|--|
| Symptoms | Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
|-----------------|--|

Delayed and immediate effects and also chronic effects from short and long term exposure

| | |
|--------------------------|--|
| Sensitization | No information available. |
| Mutagenic Effects | No information available. |
| Carcinogenicity | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|-------------------|-------|---------|-----|------|
| Isopropyl alcohol | | Group 3 | | X |

IARC: (International Agency for Research on Cancer)

Group 3: Not Classifiable as to its Carcinogenicity to Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

| | |
|---------------------------------|---------------------------|
| Reproductive Toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration Hazard | No information available. |

Numerical measures of toxicity - Product

| | |
|-----------------------|---------------------------|
| Acute Toxicity | No information available. |
|-----------------------|---------------------------|

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|-------------------|---|--|----------------------------|---|
| Isopropyl alcohol | EC50 96 h: > 1000 mg/L (Desmodesmus subspicatus) EC50 72 h: > 1000 mg/L (Desmodesmus subspicatus) | LC50 96 h: = 11130 mg/L static (Pimephales promelas) LC50 96 h: = 9640 mg/L flow-through (Pimephales promelas) LC50 96 h: > 1400000 µg/L (Lepomis macrochirus) | | EC50 48 h: = 13299 mg/L (Daphnia magna) |

| | |
|--------------------------------------|---------------------------|
| Persistence and Degradability | No information available. |
|--------------------------------------|---------------------------|

| | |
|------------------------|---------------------------|
| Bioaccumulation | No information available. |
|------------------------|---------------------------|

| Chemical Name | Log Pow |
|---------------------------------------|---------|
| Petroleum gases, liquified, sweetened | 2.8 |
| Isopropyl alcohol | 0.05 |

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

| | |
|-------------------------------|---|
| Waste Disposal Methods | This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). |
| Contaminated Packaging | Do not re-use empty containers. |
| US EPA Waste Number | D001 |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California Hazardous Waste |
|-------------------|----------------------------|
| Isopropyl alcohol | Toxic Ignitable |

14. TRANSPORT INFORMATION

| | |
|-----------------------------|-----------------------------|
| Note: | Limited quantity |
| DOT | |
| UN-Number | UN 1950 |
| Proper shipping name | Aerosols, flammable, n.o.s. |
| Hazard Class | 2.1 |

15. REGULATORY INFORMATION

International Inventories

| | |
|-------------|--------|
| TSCA | Exempt |
| DSL | Exempt |

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|-------------------|---------|----------|-------------------------------|
| Isopropyl alcohol | 67-63-0 | 1.5 | 1.0 |

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | Yes |
| Reactive Hazard | No |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|-------------------|------------|---------------|--------------|----------|--------------|
| Isopropyl alcohol | X | X | X | | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

| | | | | |
|-------------|------------------------|-----------------------|--------------------------|--|
| NFPA | Health Hazard 1 | Flammability 4 | Instability 0 | Physical and Chemical Hazards - |
| HMIS | Health Hazard 1 | Flammability 4 | Physical Hazard 0 | Personal Protection X |

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Issuing Date 18-Jun-2013
Revision Date 18-Jun-2013
Revision Note Initial Release.

General Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet