

SAFETY DATA SHEET

HCS-2012 APPENDIX D TO §1910.1200

Version 1
Product name Li-MnO₂ Button Cell (3V CR2032)

Issue date 06-Jun-2017
Revision date 06-Jun-2017

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

Product identifier

Product name Li-MnO₂ Button Cell (3V CR2032)

Other means of identification

Product Code CR2032 3.0V 210mAh

Recommended use of the chemical and restrictions on use

Recommended use Power supply
Uses advised against No information available.

Details of the supplier of the safety data sheet

Supplier Dongguan Guante Electronics Technology Co., Ltd.
Address Hengtai Building, Middle Road Of Dongcheng, Guancheng District, Dongguan City
Postal code 523119
Phone +86-769-23102849
FAX +86-769-23061577
E-mail guantecell@163.com

Emergency telephone number

+86-769-23102849

2. HAZARDS IDENTIFICATION

GHS classification

Not classified.

Label elements

Symbols/Pictograms None
Signal word None
Hazard statements Not classified
Precautionary statements
Prevention None.
Response None.
Storage None.
Disposal None.

Hazards not otherwise classified (HNOC)

These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. The most likely risk is acute exposure when a battery vents. Leaking material exposure to skin, eyes may cause irritation. Inhalation of fumes may cause respiratory irritation.

Unknown acute toxicity

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature Article

| Chemical name | CAS No | Weight-% |
|-----------------|------------|----------|
| Stainless steel | 12597-68-1 | 50.5 |

| | | |
|--------------------------------|-----------|-------|
| Manganese dioxide | 1313-13-9 | 30.99 |
| Perchloric acid, lithium salt | 7791-03-9 | 4 |
| Polypropylene | 9003-07-0 | 3.76 |
| Propylene carbonate | 108-32-7 | 3 |
| Polytetrafluoroethylene | 9002-84-0 | 2.17 |
| Graphite | 7782-42-5 | 2.17 |
| Lithium | 7439-93-2 | 1.91 |
| Ethylene glycol dimethyl ether | 110-71-4 | 1.5 |

4. FIRST AID MEASURES

Description of first aid measures

| | |
|----------------|--|
| General advice | In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). |
| Inhalation | If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air. Obtain medical advice. |
| Skin contact | If skin contact with contents of an open battery occurs, as quickly as possible remove contaminated clothing, shoes and leather goods. Immediately flush with lukewarm, gently flowing water for at least 15 minutes. If irritation or pain persists, seek medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard. |
| Eye contact | If eye contact with contents of an open battery occurs, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 15 minutes while holding the eyelids open. Neutral saline solution may be used as soon as it is available. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility. |
| Ingestion | If ingestion of contents of an open battery occurs, never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL (2-8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Quickly transport victim to an emergency care facility. |

Most important symptoms and effects, both acute and delayed

These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. The most likely risk is acute exposure when a battery vents. Leaking material exposure to skin, eyes may cause irritation. Inhalation of fumes may cause respiratory irritation. See Section 11 for more information.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

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. Cool containers with flooding quantities of water until well after fire is out. Evacuate personnel to safe areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Remove all sources of ignition. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Do not touch or walk through spilled material. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up

Prevent material from contaminating soil and from entering sewers or waterways. Stop the leak if safe to do so. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Use personal protection recommended in Section 8. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Store in accordance with local regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH | Denmark | European Union |
|--------------------------------------|--|---|---|----------------------------|----------------|
| Manganese dioxide (CAS #: 1313-13-9) | TWA: 0.02 mg/m ³ Mn TWA: 0.1 mg/m ³ Mn | (vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ Mn | IDLH: 500 mg/m ³ Mn TWA: 1 mg/m ³ Mn STEL: 3 mg/m ³ Mn | TWA: 0.2 mg/m ³ | - |
| Graphite (CAS #: 7782-42-5) | TWA: 2 mg/m ³ respirable fraction all forms except graphite fibers | - | IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³ natural respirable dust | TWA: 2.5 mg/m ³ | - |

| Chemical name | Latvia | France | Finland | Germany | Italy |
|--|----------------------------|--------------------------|--|--|-------|
| Manganese dioxide (CAS #: 1313-13-9) | TWA: 0.3 mg/m ³ | - | TWA: 0.2 mg/m ³ TWA: 0.1 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.02 mg/m ³ Ceiling / Peak: 1.6 mg/m ³ Ceiling / Peak: 0.16 mg/m ³ TWA: 0.5 mg/m ³ | - |
| Polypropylene (CAS #: 9003-07-0) | TWA: 5 mg/m ³ | - | - | - | - |
| Propylene carbonate (CAS #: 108-32-7) | TWA: 2 mg/m ³ | - | - | - | - |
| Graphite (CAS #: 7782-42-5) | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ | TWA: 1.5 mg/m ³ TWA: 4 mg/m ³ | - |
| Ethylene glycol dimethyl ether (CAS #: 110-71-4) | TWA: 10 mg/m ³ | - | - | - | - |

| Chemical name | Poland | Portugal | Spain | Switzerland | Netherlands |
|--------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------|
| Manganese dioxide (CAS #: 1313-13-9) | TWA: 0.3 mg/m ³ | TWA: 0.2 mg/m ³ | TWA: 0.2 mg/m ³ | TWA: 0.5 mg/m ³ | - |

| Chemical name | Norway | United Kingdom | Australia | Austria | Belgium |
|--------------------------------------|--|----------------------------|---------------------|--|---------|
| Manganese dioxide (CAS #: 1313-13-9) | TWA: 1 mg/m ³ TWA: 0.1 mg/m ³ STEL: 1 ppm STEL: 0.1 mg/m ³ | TWA: 0.5 mg/m ³ | 1 mg/m ³ | STEL 2 mg/m ³ TWA: 0.5 mg/m ³ | - |

| | | | | | |
|-----------------------------|--|---|---------------------|---|---|
| Graphite (CAS #: 7782-42-5) | TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 5 mg/m ³ STEL: 2 mg/m ³ STEL: 10 mg/m ³ STEL: 4 mg/m ³ | - | 3 mg/m ³ | STEL 10 mg/m ³ TWA: 5 mg/m ³ | - |
|-----------------------------|--|---|---------------------|---|---|

Appropriate engineering controls

Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor.

Individual protection measures, such as personal protective equipment

| | |
|--------------------------|--|
| Respiratory protection | Not necessary under normal conditions. 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. |
| Hand protection | Not necessary under normal conditions. Wear neoprene or natural rubber material gloves if handling an open or leaking battery. |
| Eye/face protection | Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery. |
| Skin and body protection | Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery. |

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

| | |
|--------------------------------|--------------------------|
| Appearance | Solid |
| Color | No information available |
| Odor | No information available |
| Odor threshold | Not determined |
| pH | Not determined |
| Melting point/freezing point | Not determined |
| Boiling point / boiling range | Not determined |
| Flash point | Not determined |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | Not flammable |
| Flammability limit in air | Not determined |
| Vapor pressure | Not determined |
| Vapor density | Not determined |
| Density | Not determined |
| Relative density | Not determined |
| Water solubility | Not determined |
| Partition coefficient (LogPow) | Not determined |
| Autoignition temperature | Not determined |
| Decomposition temperature | Not determined |
| Kinematic viscosity | Not determined |
| Dynamic viscosity | Not determined |
| Explosive properties | Not an explosive |
| Oxidizing properties | Not determined |

Other information

No information available

10. STABILITY AND REACTIVITY**Reactivity**

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None under normal use conditions

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

| | |
|--------------|--|
| Inhalation | No known effect based on information supplied. |
| Eye contact | No known effect based on information supplied. |
| Skin contact | No known effect based on information supplied. |
| Ingestion | No known effect based on information supplied. |

Information on toxicological effects**Acute toxicity**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|--|---|------------------------------------|
| Manganese dioxide (CAS #: 1313-13-9) | >3480 mg/kg (Rat) male | - | - |
| Polypropylene (CAS #: 9003-07-0) | >5 g/kg | - | - |
| Propylene carbonate (CAS #: 108-32-7) | 29000 mg/kg (Rat) > 5000 mg/kg bw (Rat) | > 20 mL/kg (Rabbit) 2000 mg/kg bw (Rabbit) | - |
| Graphite (CAS #: 7782-42-5) | > 2000 mg/kg (rat) | - | > 2000 mg/m ³ /4h (rat) |
| Ethylene glycol dimethyl ether (CAS #: 110-71-4) | = 5370 mg/kg (Rat) | - | - |

Skin corrosion/irritation

Non-irritating to the skin.

Serious eye damage/eye irritation

No eye irritation.

Sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

| Chemical name | ACGIH | IARC | NTP | OSHA |
|--|-------|---------|-----|------|
| Polypropylene (CAS #: 9003-07-0) | - | Group 3 | - | - |
| Polytetrafluoroethylene (CAS #: 9002-84-0) | - | Group 3 | - | - |

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

| Chemical name | Algae/Aquatic plants EC50 | Fish LC50 | Crustacea EC50 |
|---------------------------------------|--|--|---|
| Manganese dioxide (CAS #: 1313-13-9) | > 100 other: v/v saturated solution 72h <i>Desmodesmus subspicatus</i> | > 100 other: % v/v saturated solution 96h <i>Oncorhynchus mykiss</i> | > 100 other: % v/v saturated solution 48h <i>Daphnia magna</i> |
| Propylene carbonate (CAS #: 108-32-7) | 500mg/L 72 h <i>Desmodesmus subspicatus</i> > 900 mg/L 72h <i>Desmodesmus subspicatus</i> | 1000mg/L 96 h <i>Cyprinus carpio</i> semi-static 5300mg/L 96 h <i>Leuciscus idus</i> static > 1000 mg/L 96h <i>Cyprinus carpio</i> | 500mg/L 48 h <i>Daphnia magna</i> > 1000 mg/L 24h 48h <i>Daphnia magna</i> |
| Graphite (CAS #: 7782-42-5) | > 100 mg/l/72h (<i>Pseudokirchneriella subcapitata</i>) | > 100 mg/l/96h (<i>Danio rerio</i>) | > 100 mg/l/48h (<i>Daphnia magna</i>) |

Persistence and degradability

No information available.

Bioaccumulative potential

| Chemical name | Partition coefficient (LogPow) |
|--|--------------------------------|
| Manganese dioxide (CAS #: 1313-13-9) | <0 |
| Propylene carbonate (CAS #: 108-32-7) | 0.48 |
| Ethylene glycol dimethyl ether (CAS #: 110-71-4) | -0.21 |

Mobility in soil

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

| | |
|------------------------|---|
| Disposal of wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated packaging | Disposal should be in accordance with applicable regional, national and local laws and regulations. |

14. TRANSPORT INFORMATION**DOT / IMDG / IATA**

| | |
|-------------------------|---|
| UN/ID No. | 3090 |
| UN proper shipping name | LITHIUM METAL BATTERIES(includinglithium alloy batteries) |
| Hazard class | 9 |
| Packing group | II |
| Special precautions | No information available |
| Marine pollutant | Non-marine pollutant |

15. REGULATORY INFORMATION**International inventories**

| Component | AICS | DSL/NDSL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | TSCA |
|---|------|----------|-------------------|--------|-------|------|-------|------|
| Stainless steel 12597-68-1 (50.5) | - | - | - | - | X | - | - | - |
| Manganese dioxide 1313-13-9 (30.99) | X | X | X | X | X | X | X | X |
| Perchloric acid, lithium salt 7791-03-9 (4) | X | X | X | X | X | X | - | X |
| Polypropylene 9003-07-0 (3.76) | X | X | - | X | X | X | X | X |
| Propylene carbonate 108-32-7 (3) | X | X | X | X | X | X | X | X |
| Polytetrafluoroethylene 9002-84-0 (2.17) | X | X | - | X | X | X | X | X |
| Graphite 7782-42-5 (2.17) | X | X | X | Exempt | X | X | X | X |
| Lithium 7439-93-2 (1.91) | X | X | X | X | X | X | X | X |
| Ethylene glycol dimethyl ether 110-71-4 (1.5) | X | X | X | X | X | X | X | X |

"- " Not Listed

"X" Listed

US Federal Regulations**SARA 313**

| Chemical name | SARA 313 - Threshold Values % |
|---|-------------------------------|
| Manganese dioxide - 1313-13-9 | 1.0 |
| Ethylene glycol dimethyl ether - 110-71-4 | 1.0 |

SARA 311/312 Hazard Categories

Not applicable

CWA (Clean Water Act)

Not applicable

CERCLA

Not applicable

US 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 |
|--|------------|---------------|--------------|
| Manganese dioxide 1313-13-9 | X | - | X |
| Graphite 7782-42-5 | X | X | - |
| Lithium 7439-93-2 | X | X | X |
| Ethylene glycol dimethyl ether 110-71-4 | X | X | X |

16. OTHER INFORMATION

Revision note

| | |
|---------------|----------------|
| Issue date | 06-Jun-2017 |
| Revision date | 06-Jun-2017 |
| Revision note | Not applicable |

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (Time Weighted Average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European INventory of Existing Commercial chemical Substances/European List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korea Existing Chemicals List

PICCS - The Philippine Inventory of Chemicals and Chemical Substances

AICS - The Australian Inventory of Chemical Substances

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 -----

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SAFETY DATA SHEET

Issuing Date 09-Feb-2021

Revision Date 09-Feb-2021

Revision Number 2

NGHS / English



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1. IDENTIFICATION

Product identifier

Product Name Windmill AC Unit With Refrigerant

Other means of identification

Product Code(s) 1620126

Recommended use of the chemical and restrictions on use

Recommended Use Appliance containing Compressed Gas (not Freon)

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Identification The Air Lab, Inc. (DBA Windmill)

Address 108 Leonard Street
Apt 2B
New York
NY
10013
US

Telephone Phone:4073100607

E-mail mike@windmillair.com

Emergency telephone number

Company Emergency Phone Number 4073100607

2. HAZARDS IDENTIFICATION

Classification

| | |
|-----------------|------------|
| Flammable gases | Category 1 |
|-----------------|------------|



| | |
|----------------------|----------------|
| Gases under pressure | Compressed Gas |
|----------------------|----------------|

Appearance No data available

Physical state Compressed gas Gas

Odor No data available

GHS Label elements, including precautionary statements

Danger

Hazard statements

Extremely flammable gas
 Contains gas under pressure; may explode if heated



Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Precautionary Statements - Response

Skin

Eliminate all ignition sources if safe to do so

Fire

Leaking gas fire: Do not extinguish, unless leak can be stopped safely

Precautionary Statements - Storage

Store in well-ventilated place
 Protect from sunlight. Store in a well-ventilated place

Other information

- Unknown acute toxicity** 100 % of the mixture consists of ingredient(s) of unknown toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
 - 100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
 - 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
 - 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
 - 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

| Chemical name | CAS No | Weight-% | Hazardous Material Information Review Act registry number (HMIRA) | Date HMIRA filed and date exemption granted (if applicable) |
|---------------|--------|----------|---|---|
|---------------|--------|----------|---|---|



| | | | | |
|--------------------|---------|-----|-------------|---|
| | | | registry #) | |
| Methylene fluoride | 75-10-5 | 100 | - | - |

4. FIRST AID MEASURES

Description of first aid measures

| | |
|---------------------|--|
| Inhalation | Remove to fresh air. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact | In case of contact with liquefied gas, thaw frosted parts with lukewarm water. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. |

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Large Fire | CAUTION: Use of water spray when fighting fire may be inefficient. |
| Unsuitable extinguishing media | DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED. |
| Specific hazards arising from the chemical | Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Ruptured cylinders may rocket. |
| Hazardous Combustion Products | Carbon oxides. |
| Explosion Data | |
| Sensitivity to Mechanical Impact | Yes. |
| Sensitivity to Static Discharge | Yes. |
| Special protective equipment for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld



containers.

Methods and material for containment and cleaning up

| | |
|--------------------------------|---|
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Pick up and transfer to properly labeled containers. |

7. HANDLING AND STORAGE

Precautions for safe handling

| | |
|--------------------------------|---|
| Advice on safe handling | Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Take precautionary measures against static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|--------------------------------|---|

Conditions for safe storage, including any incompatibilities

| | |
|---------------------------|---|
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. |
|---------------------------|---|

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| | |
|------------------------|---|
| Exposure Limits | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|------------------------|---|

Appropriate engineering controls

| | |
|-----------------------------|---|
| Engineering controls | Showers Eyewash stations Ventilation systems. |
|-----------------------------|---|

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------------|--|
| Eye/face protection | No special protective equipment required. |
| Skin and body protection | No special protective equipment required. |
| Respiratory protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties



| | |
|----------------|--------------------------|
| Physical state | Compressed gas; Gas |
| Appearance | No data available |
| Odor | No data available |
| Color | No information available |
| Odor Threshold | No data available |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> | <u>Method</u> |
|--|--------------------|----------------|---------------|
| pH | No data available | None known | |
| Melting / freezing point | 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 Limit in Air | | None known | |
| 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 | |
| Water Solubility | Moderately soluble | | |
| Solubility(ies) | No data available | None known | |
| Partition coefficient: n-octanol/water | NA | | |
| Autoignition temperature | No data available | None known | |
| Decomposition temperature | No data available | None known | |
| Kinematic viscosity | No data available | None known | |
| Dynamic viscosity | No data available | None known | |

Other Information

| | |
|----------------------------|--------------------------|
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Softening Point | No information available |
| Molecular Weight | No information available |
| VOC Content (%) | No information available |
| Liquid Density | No information available |
| Bulk Density | No information available |
| Particle Size | No information available |
| Particle Size Distribution | No information available |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Reactivity | No information available. |
| Chemical stability | Stable under normal conditions. |
| Possibility of Hazardous Reactions | None under normal processing. |
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Conditions to avoid | Excessive heat. |
| Incompatible materials | None known based on information supplied. |
| Hazardous Decomposition Products | Carbon oxides. |

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

| | |
|---------------------|---|
| Inhalation | Specific test data for the substance or mixture is not available. |
| Eye contact | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion | Specific test data for the substance or mixture is not available. |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity**Acute toxicity**

Unknown acute toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity
 100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
 100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--------------------|-----------|-------------|--------------------------|
| Methylene fluoride | - | - | > 520000 ppm (Rat) 4 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--|---------------------------|
| Skin corrosion/irritation | No information available. |
| Serious eye damage/eye irritation | No information available. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | No information available. |
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration hazard | No information available. |

12. ECOLOGICAL INFORMATION

| | |
|--------------------------------------|---|
| Ecotoxicity | The environmental impact of this product has not been fully investigated. |
| Persistence and Degradability | No information available. |
| Bioaccumulation | No information available. |
| Mobility | No information available. |
| Other adverse effects | No information available. |

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|--|---|
| Waste from residues/unused products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging | Do not reuse empty containers. |
| US EPA Waste Number | D001 |
| California Waste Codes | 331 |

14. TRANSPORT INFORMATION

| | |
|-----------------------------|----------------|
| <u>DOT</u> | NOT REGULATED |
| Proper Shipping Name | NON-REGULATED |
| Hazard Class | N/A |
| <u>TDG</u> | Not applicable |
| <u>MEX</u> | Not applicable |
| <u>ICAO</u> | Not applicable |
| <u>IATA</u> | Not applicable |
| <u>IMDG/IMO</u> | Not applicable |
| Hazard Class | N/A |
| <u>RID</u> | Not applicable |
| <u>ADR</u> | Not applicable |
| <u>ADN</u> | Not applicable |

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

| | |
|----------------------|---|
| TSCA | Contact supplier for inventory compliance status. |
| DSL/NDSL | Contact supplier for inventory compliance status. |
| EINECS/ELINCS | Contact supplier for inventory compliance status. |
| ENCS | Contact supplier for inventory compliance status. |
| KECL | Contact supplier for inventory compliance status. |
| PICCS | Contact supplier for inventory compliance status. |
| AICS | Contact supplier for inventory compliance status. |

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Methylene fluoride 75-10-5 | | X | | |

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

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

| Chemical name | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|-------------------------------|------------|---------------|--------------|--------------|----------|
| Methylene fluoride 75-10-5 | | | X | | |

16. OTHER INFORMATION

| | | | | |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 1 | Flammability 4 | Instability 0 | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 1 | Flammability 4 | Physical hazards 0 | Personal Protection X |

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

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Revision Note No information available

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