

Safety Data Sheet P-4575

Making our planet more productive"

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Date of issue: 01/01/1997 Revision date: 02/06/2019 Supersedes: 10/17/2016

SECTION: 1. Product and company identification **Product identifier** 1.1. Product form : Substance Trade name : Dry Ice, Ultralce CAS-No 124-38-9 Formula : CO2 Other means of identification : Dry ice (nuggets, pellets, or blocks), carbonice, carbonic anhydride Relevant identified uses of the substance or mixture and uses advised against 1.2. : Industrial use; Use as directed. Use of the substance/mixture Details of the supplier of the safety data sheet 1.3. Praxair, Inc. 10 Riverview Drive Danbury, CT 06810-6268 - USA T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146 www.praxair.com **Emergency telephone number** 1.4. **Emergency number** : Onsite Emergency: 1-800-645-4633 CHEMTREC, 24hr/day 7days/week - Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887 (collect calls accepted, Contract 17729) **SECTION 2: Hazard identification** 2.1. Classification of the substance or mixture **GHS US classification** Label elements 2.2. **GHS US labeling** No labeling applicable 2.3. **Other hazards** Other hazards not contributing to the : Refrigerated solidified gas. CONTACT WITH PRODUCT MAY CAUSE COLD BURNS OR classification FROSTBITE. Dry ice sublimes to carbon dioxide vapor at -109°F (-78°C). VAPOR MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION. 2.4. Unknown acute toxicity (GHS US) No data available SECTION 3: Composition/Information on ingredients **Substances** 3.1. **Product identifier** % Name Carbon Dioxide, Solid or Dry Ice (CAS-No.) 124-38-9 100 (Main constituent) 3.2. **Mixtures** Not applicable

EN (English US)

SDS ID: P-4575

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| SECT      | ION 4: First aid measures                    |   |
|-----------|--|---|
| 4.1.      | Description of first aid measures            |   |
| First-aid | d measures after inhalation                  | : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.   |
| First-aid | d measures after skin contact                | : In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.   |
| -irst-aid | d measures after eye contact                 | : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately Get immediate medical attention.  |
| First-aid | d measures after ingestion                   | : Ingestion is not considered a potential route of exposure.  |
| 4.2.      | Most important symptoms and effe             | ects, both acute and delayed  |
|           |  | No additional information available   |
| 4.3.      | Indication of any immediate medic            | al attention and special treatment needed   |
| None.     |  |   |
| SECT      | ION 5: Firefighting measures                 |   |
| 5.1.      | Extinguishing media                          |   |
|           | itional information available                |   |
| 5.2.      | Special hazards arising from the s           | ubstance or mixture   |
| Reactiv   |  | : None.   |
|           | •  |   |
| 5.3.      | Advice for firefighters<br>ting instructions | : Evacuate all personnel from danger area. Do not discharge sprays onto solid carbon dioxide.   |
|           |  | Solid carbon dioxide will freeze water rapidly. NEVER HANDLE SOLID CARBON DIOXIDE WITH YOUR BARE HANDS. USE GLOVES OR DRY ICE TONGS OR A DRY SHOVEL OR SCOOP. Move packages away from fire area if safe to do so. Self-contained breathing apparatus may be required by rescue workers. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection.                       |
| SECT      | ION 6: Accidental release mea                | asures  |
| 6.1.      | Personal precautions, protective e           | quipment and emergency procedures   |
| Genera    | I measures                                   | : Use protective clothing. Wear cold-insulating gloves/face shield/eye protection. Chemical asphyxiant. Exposure to low concentrations for extended periods may result in dizziness or unconsciousness, and may lead to death. Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe. NEVER HANDLE SOLID CARBON DIOXIDE WITH YOUR BARE HANDS. USE GLOVES OR DRY ICE TONGS OR A DRY SHOVEL OR SCOOP. |
| 6.1.1.    | For non-emergency personnel                  | No additional information available   |
| 6.1.2.    | For emergency responders                     |   |
|           |  | No additional information available   |
| 6.2.      | Environmental precautions                    |   |
|           |  | Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>Contact supplier for any special requirements.   |
| 6.3.      | Methods and material for containm            | nent and cleaning up  |
|           |  | No additional information available   |
| 6.4.      | Reference to other sections                  |   |
|           |  | See also sections 8 and 13.   |
|           |  |   |



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| SECTI     | ON 7: Handling and storage            |  |
|-----------|---------------------------------------|--|
| 7.1.      | Precautions for safe handling         |  |
| Precautio | ons for safe handling                 | : Avoid materials incompatible with cryogenic use; some metals such as carbon steel may fracture easily at low temperature. Vapor can cause rapid suffocation due to oxygen deficiency. Never allow any unprotected part of your body to touch solid carbon dioxide or to touch uninsulated pipes or vessels containing solid or liquid carbon dioxide or cold carbon dioxide gas. Not only can you suffer frostbite, your skin may stick fast to the cold surfaces. Use tongs or insulated gloves when handling solid carbon dioxide or objects in contact cold carbon dioxide in any form. Wear protective clothing and equipment as prescribed in section 8. For other precautions in using carbon dioxide, see section 16. |
| 7.2.      | Conditions for safe storage, includin | g any incompatibilities  |
| Storage   | conditions                            | : Store and use with adequate ventilation. Do not store in tight containers or confined spaces. Storage areas should be clean and dry. Solid carbon dioxide is generally delivered to customers in 50-lb (22.7-kg), ½-cubic ft (0.0142 cubic meter) blocks (approximate dimensions), wrapped in kraft paper. Small pellets or nuggets are also produced. The product should be stored in insulated containers that open from the top. Lids should fit loosely so the carbon dioxide yapor given off as the solid sublimes can escape into the atmosphere. Carbon dioxide gas is about 1½ times as heavy as air and will accumulate in low-lying areas, so ventilation must be adequate at floor or below grade level.          |
| 7.3.      | Specific end use(s)                   |  |
|           |                                       | None.  |

### SECTION 8: Exposure controls/personal protection

| 8.1. Control parameters        |  |  |  |
|--------------------------------|--|--|--|
| Carbon Dioxide, Solid or Di    | y Ice (124-38-9)   |  |  |
| ACGIH                          | ACGIH TLV-TWA (ppm)  | 5000 ppm   |  |
| ACGIH                          | ACGIH TLV-STEL (ppm)   | 30000 ppm  |  |
| USA OSHA                       | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 9000 mg/m <sup>3</sup>   |  |
| USA OSHA                       | OSHA PEL (TWA) (ppm)   | 5000 ppm   |  |
| USA IDLH                       | US IDLH (ppm)  | 40000 ppm  |  |
| 8.2. Exposure controls         |  |  |  |
| Appropriate engineering contro | used when asphyxiating gases may be released. Ensure exposure<br>ire limits (where available). Systems under pressure should be<br>as. Provide adequate general and local exhaust ventilation.<br>e.g. for maintenance activities. |  |  |
| Hand protection                | : Cold-insulating gloves.  | Cold-insulating gloves.  |  |
| Eye protection                 | : Wear safety glasses with side  | : Wear safety glasses with side shields.   |  |
| Respiratory protection         | meets OSHA 29 CFR 1910.1<br>Use an air-supplied or air-pur<br>respirator has the appropriate<br>respirators are used, the cartu  | varrant respirator use, follow a respiratory protection program that<br>34, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable).<br>ifying cartridge if the action level is exceeded. Ensure that the<br>e protection factor for the exposure level. If cartridge type<br>ridge must be appropriate for the chemical exposure. For<br>h unknown exposure levels, use a self-contained breathing |  |
| Thermal hazard protection      | Wear cold insulating gloves  |  |  |

| i nermai nazard protection      | : vvear cold insulating gloves.                |
|---------------------------------|--|
| Environmental exposure controls | : None necessary.                              |
| Other information               | : Wear safety shoes while handling containers. |
|                                 |  |

| SECTION 9: Physical and chemical properties                |                                    |     |
|--|------------------------------------|-----|
| 9.1. Information on basic physical and chemical properties |                                    |     |
| Physical state   | : Solid                            |     |
| Appearance   | : Opaque. White crystalline solid. |     |
| Molecular mass   | : 44 g/mol                         |     |
| Color  | : White.                           |     |
| Odor   | : No odor warning properties.      |     |
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|  | Date of Issue. 01/01/1997 Revision date. 02/06/2019 Supersedes. 10/11/2010                              |
|--|---|
| Odor threshold                           | : No data available   |
| рН                                       | : 3.7 (carbonic acid)   |
| Relative evaporation rate (butyl acetate | =1) : No data available   |
| Relative evaporation rate (ether=1)      | : Not applicable.   |
| Melting point                            | : -78.5 °C  |
| Freezing point                           | : No data available   |
| Boiling point                            | : -78.4 °C  |
| Flash point                              | : Not applicable.   |
| Critical temperature                     | : 30 °C   |
| Auto-ignition temperature                | : Not applicable.   |
| Decomposition temperature                | : No data available   |
| Flammability (solid, gas)                | : No data available   |
| Vapor pressure                           | : 5730 kPa  |
| Critical pressure                        | : 7375 kPa  |
| Relative vapor density at 20 °C          | : No data available   |
| Relative density                         | : 0.82  |
| Density                                  | : 1562 kg/m <sup>3</sup>  |
| Relative gas density                     | : 1.52  |
| Solubility                               | : Water: 2000 mg/l Completely soluble.  |
| Log Pow                                  | : 0.83  |
| Log Kow                                  | : Not applicable.   |
| Viscosity, kinematic                     | : Not applicable.   |
| Viscosity, dynamic                       | : Not applicable.   |
| Explosive properties                     | : Not applicable.   |
| Oxidizing properties                     | : None.   |
| Explosion limits                         | : Not applicable.   |
| 9.2. Other information                   |   |
| Sublimation point                        | : -78.5 °C Expansion ratio for solid to gas at sublimation point is 1 to 554.                           |
| Additional information                   | : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. |

| SECT  | ION 10: Stability and reactivity     |   |
|-------|--------------------------------------|---|
| 10.1. | Reactivity                           |   |
|       |                                      | None.   |
| 10.2. | Chemical stability                   |   |
|       |                                      | Stable under normal conditions.   |
| 10.3. | Possibility of hazardous reactions   |   |
|       |                                      | None.   |
| 10.4. | Conditions to avoid                  |   |
|       |                                      | None under recommended storage and handling conditions (see section 7).   |
| 10.5. | Incompatible materials               |   |
|       |                                      | Alkali metals, Alkaline earth metals, Acetylide forming metals, Chromium, Titanium > 1022°F<br>(550°C), Uranium (U) > 1382°F (750°C), Magnesium > 1427°F (775°C). |
| 10.6. | Hazardous decomposition products     |   |
|       |                                      | Electrical discharges and high temperatures decompose carbon dioxide into carbon monoxide and oxygen.   |
| SECT  | ION 11: Toxicological informatic     | n   |
| 11.1. | Information on toxicological effects |   |
|       |                                      |   |

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| Serious eye damage/irritation   pH: 3.7 (carbonic acid)     Serious eye damage/irritation   : Not classified     pH: 3.7 (carbonic acid)   pH: 3.7 (carbonic acid)     Respiratory or skin sensitization   : Not classified     Germ cell mutagenicity   : Not classified   | Da  | te of issue: 01/01/1997 Revision date: 02/06/2019 Supersedes: 10/17/2016   |
|---|---|--|
| pr: 3.7 (carbonic acid)     Serious eye damage/initiation   i. Not classified     Respiratory or skin sensitization   i. Not classified     Germ cell mulagerination   i. Not classified     Carcinogenicity   i. Not classified     Carcinogenicity   i. Not classified     Specific traget organ toxicity = righe exposure   i. Not classified     Specific traget organ toxicity = righe exposure   i. Not classified     Specific traget organ toxicity = repeated   i. Not classified     Specific traget organ toxicity = repeated   i. Not classified     Specific traget organ toxicity = repeated   i. Not classified     Specific traget organ toxicity = repeated   i. Not classified     Specific traget organ toxicity = repeated   i. Not classified     Specific traget organ toxicity = repeated   i. Not classified     Specific traget organ toxicity = repeated   i. Not classified     Specific traget organ toxicity = repeated   i. Not classified     Specific traget organ toxicity = repeated   i. Not classified     Specific traget organ toxicity = repeated   i. Not classified     Specific traget organ toxicity = repeated   i. Not classified     Specific traget organ toxicity = repeated   i. Not classifi  | Acute toxicity                                | : Not classified   |
| Serious eye damage/irritation : Not classified   PH: 3.7 (carbonic acid)   Respiratory or skin sensitization : Not classified   Germ cell mutagenicity : Not classified   Carcinopenicity : Not classified   Specific target organ toxicity – single exposure : Not classified   Specific target organ toxicity – repeated : Not classified   Specific target organ toxicity – repeated : Not classified   Specific target organ toxicity – repeated : Not classified   Specific target organ toxicity – repeated : Not classified   Specific target organ toxicity – repeated : Not classified   Specific target organ toxicity – repeated : Not classified   Station hazard : Not classified  | Skin corrosion/irritation                     | : Not classified   |
| PH: 3.7 (carbonic acid)   Respiratory or skin sensitization : Not classified   Garm cell mutagenicity : Not classified   Carcinoganicity : Not classified   Reproductive toxicity : Not classified   Specific target organ toxicity – single exposure : Not classified   Specific target organ toxicity – repeated : Not classified   Aspiration heard : Not classified   Sectriton 12: Ecological information 12.1   12.1 Toxicity   Ecolary - general : Not classified   Sectriton 12: Ecological information 12.1   12.2 Persistence and degradability   Carbon Dioxide, Solid or Dry ice (124-38-9) 12.1   Persistence and degradability [No ecological damage caused by this product.   12.3 Bioaccumulative potential   Carbon Dioxide, Solid or Dry ice (124-38-9)   ECF fish 1 (no bioaccumulation)   Log Fow 0.83   Log Kow Not applicable.   Bioaccumulative potential No ecological damage caused by this product.   12.4 Mobility in soil   Carbon Dioxide, Solid or Dry ice (124-38-9)   Mobility in soil No ecological damage caused by this product.   12.5 Other adverse effects   Other adverse effects <td< td=""><td></td><td>pH: 3.7 (carbonic acid)</td></td<>   |   | pH: 3.7 (carbonic acid)  |
| Respiratory or skin sensitization i Not classified<br>Gern cell mutagenicity i Not classified<br>Carcinogenicity i Not classified<br>Specific target organ toxicity - single exposure i Not classified<br>Specific target organ toxicity - single exposure i Not classified<br>Specific target organ toxicity - single exposure i Not classified<br>Specific target organ toxicity - sepested exposure i Not classified<br>Specific target organ toxicity - sepested i No ecological damage caused by this product.<br>12.1 Toxicity<br>Specific target or Dru Ice (124-38-9)<br>Specific target or Dru Ice (124-38-9)<br>Mobility in soil (Not applicable.<br>Bioaccumulative potential No ecological damage caused by this product.<br>12.4 Mobility in soil No cause frost damage caused by this product.<br>12.5 Other adverse effects<br>Specific ton corne layer i Can cause frost damage to vegetation.<br>Effect on zone layer i Can cause frost damage to vegetation.<br>Effect on the global warming i When discharged in large quantities may contribute to the greenhouse effect.<br>Specific ton zone layer i Securitor.<br>13.1 Waste treatment methods i See Saction 6.<br>Product/Packaging disposal recommendentian i See Saction 6.<br>Product/Packaging disposal recommendentian i See Saction 5.<br>Product/Packaging disposal recommendentian i See Saction 6.<br>Product/Packaging disposal recommendentian i See Saction 6.<br>Product/Packaging disposal recommendentian i See Saction 6.<br>Product/Packaging disposal recommen  | Serious eye damage/irritation                 | : Not classified   |
| Gern mutagenicity   i. Not classified     Carcinopericity   i. Not classified     Reproductive toxicity   i. Not classified     Specific target organ toxicity – single exposure   i. Not classified     Specific target organ toxicity – nepeated   i. Not classified     Specific target organ toxicity – nepeated   i. Not classified     Specific target organ toxicity – nepeated   i. Not classified     Specific target organ toxicity – nepeated   i. Not classified     Specific target organ toxicity – nepeated   i. Not classified     Specific target organ toxicity – nepeated   i. Not classified     Specific target organ toxicity – nepeated   i. Not classified     Specific target organ toxicity – nepeated   i. Not classified     Specific target organ toxicity – nepeated   i. Not classified     Specific target organ toxicity – nepeated   i. Not classified     Specific target organ toxicity – nepeated   i. No clossific damage caused by this product.     Specific target organ toxicity – nepeated   Not capplicable.     Bor Finsh   (not bioaccumulation)     Log Fow   0.83     Log Fow   0.83     Log Fow   Not classified     Specific target organ toxicit   |   |  |
| Carcingenicity : Not classified<br>Reproductive toxicity : Not classified<br>Specific target organ toxicity - repeated : Not classified<br>Specific target organ toxicity - repeated : Not classified<br>exposure<br>Aspiration hazard : Not classified<br>SECTION 12: Ecological information<br>21. Toxicity<br>Ecology - general : No ecological damage caused by this product.<br>22. Persistence and degradability<br>Carbon Dioxide, Solid or Dry lee (124-38-9)<br>Persistence and degradability<br>Carbon Dioxide, Solid or Dry lee (124-38-9)<br>Persistence and degradability No ecological damage caused by this product.<br>23. Bioaccumulative potential<br>Carbon Dioxide, Solid or Dry lee (124-38-9)<br>ECOF fish 1 (no bioaccumulation)<br>Log Fow 0.83<br>Log Kow Not applicable.<br>Bioaccumulative potential No ecological damage caused by this product.<br>24. Mobility in soll<br>Carbon Dioxide, Solid or Dry lee (124-38-9)<br>Mobility in soll<br>No ecological damage caused by this product.<br>12.4. Mobility in soll<br>No ecological damage caused by this product.<br>12.5. Other adverse effects<br>Carbon Dioxide, Solid or Dry lee (124-38-9)<br>Mobility in soll<br>Carbon Dioxide, Solid or Dry lee (124-38-9)<br>Mobility in soll<br>13.1. Waste treatment methods<br>Waste treatment methods<br>Moste treatment methods<br>Section 1.1. Specific content scontance with local/regional/national/intenational<br>regulations. Contact supplier for any special requirements.<br>Section 1.4. Transport information<br>regulations. Contact supplier for any special requirements.<br>Section 1.4. Transport information<br>Heacomutactory with |   |  |
| Reproductive toxicity   i. Not classified     Specific target organ toxicity - repeated   i. Not classified     Specific target organ toxicity - repeated   i. Not classified     Aspiration hazard   i. Not classified     SectroN 12: Ecological information   I.     12.1. Toxicity   Ecology - general   i. No ecological damage caused by this product.     12.2. Persistence and degradability   No ecological damage caused by this product.     12.3. Bioaccumulative potential   No ecological damage caused by this product.     12.4. Toxicity   Information     12.5. Conton Dixide, Solid or Dry Ice (124-38-9)   Reproductive potential     12.6. Row   0.83     Log Fow   0.83     Log Kow   Not applicable.     Bioaccumulative potential   No ecological damage caused by this product.     12.4. Mobility in soil   No data available.     Ecology - soil   |   |  |
| Specific target organ toxicity - repeated exposure : Not classified     Specific target organ toxicity - repeated exposure : Not classified     Aspiration hazard : Not classified     SECTION 12: Ecological information     12.1. Toxicity     Ecology - general : Not classified     Sectific target organ toxicity - repeated exposure : Not classified     12.2. Persistence and degradability     Versistence and degradability     Not cological damage caused by this product.     12.3. Bioaccumulative potential     Carbon Dioxide, Solid or Dry tee (124-38-9)     Persistence and degradability   No ecological damage caused by this product.     12.3. Bioaccumulative potential   (no bioaccumulation)     Log Row   0.83     Log Row   No as apolicable.     Bioaccumulative potential   No ecological damage caused by this product.     12.4. Mobility in soil   No data available.     Ecology - soil   No data available.     Ecology - soil   No data available.     Ecology - soil   No ecological damage to vegetation.     Effect on coone layer   : None.     Global warming potential (CO2=1]   : 1     Effect on coone layer   : See Section 6.     Pro   |   |  |
| Specific target organ toxicity – repeated exposure   : Not classified     Aspiration hazard   : Not classified     SECTION 12: Ecological information   1     12.1   Toxicity     Ecology - general   : No ecological damage caused by this product.     12.2   Persistence and degradability   No ecological damage caused by this product.     12.3   Bioaccumulative potential   No ecological damage caused by this product.     12.3   Bioaccumulative potential   No ecological damage caused by this product.     12.3   Bioaccumulative potential   No ecological damage caused by this product.     12.4   Carbon Dioxide, Solid or Dry Ice (124-38-9)   Rof fish 1   (no bioaccumulation)     Log Pow   0.83   Ok fow   Not applicable.   Not cause for the product.     12.4   Mobility in soil   No ecological damage caused by this product.   Not cause for the product.     12.5   Other adverse effects   : Can cause forst damage to vegetation.   Not cause for the global warming potential (CO2=1)   : 1     12.6   None.   Secological damage caused by this product.   Secological damage caused by this product.     12.5   Other adverse effects   : Can cause frost damage to vegetation.  |   |  |
| exposure     Asynand     f. Not classified       SECTION 12: Ecological information     Image: Cological Information       12.1. Toxicity     Ecology: general     f. No ecological damage caused by this product.       12.2. Persistence and degradability     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Persistence and degradability       Carbon Dioxide, Solid or Dry Ice (124-38-9)     No ecological damage caused by this product.     Image: Cological damage caused by this product.       12.3. Bioaccumulative potential     No ecological damage caused by this product.     Image: Cological damage caused by this product.       Log Fow     0.83     Image: Cological damage caused by this product.     Image: Cological damage caused by this product.       12.4. Mobility in soil     (no bioaccumulation)     Image: Cological damage caused by this product.       12.4. Mobility in soil     No ecological damage caused by this product.     Image: Cological damage caused by this product.       12.5. Other adverse effects     i Can cause frost damage caused by this product.     Image: Cological damage caused by this product.       12.5. Other adverse effects     i Can cause frost damage to vegetation.     Image: Cological damage caused by this product.       12.5. Other adverse effects     i None.     Image: Cological damage caused by this product.  | Specific target organ toxicity – single expos | sure : Not classified  |
| SECTION 12: Ecological information     12.1   Toxicity     Ecology - general   : No ecological damage caused by this product.     12.2.   Persistence and degradability     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Persistence and degradability   No ecological damage caused by this product.     12.3.   Bioaccumulative potential     Carbon Dioxide, Solid or Dry Ice (124-38-9)   ECF fish 1     Log Fow   0.83     Log Kow   Not applicable.     Bioaccumulative potential   No ecological damage caused by this product.     12.4.   Mobility in soll     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soll   No ecological damage caused by this product.     12.4.   Mobility in soll     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soll   No ecological damage caused by this product.     12.4.   Mobility in soll     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soll   No ecological damage caused by this product.     12.5.   Other adverse effects     Chone adverse effects   : Can cause frost damage to vegetation.     Effect on the global warming   : When discharged in large  |   | : Not classified   |
| 12.1. Toxicity     Ecology - general   : No ecological damage caused by this product.     12.2. Persistence and degradability     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Persistence and degradability   No ecological damage caused by this product.     12.3. Bioaccumulative potential     Carbon Dioxide, Solid or Dry Ice (124-38-9)     BCF fish 1   (no bioaccumulation)     Log Pow   0.83     Log Kow   Not applicable.     Bioaccumulative potential   No ecological damage caused by this product.     12.4. Mobility in soil   Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soil   No data available.     Ecology - soil   No data available.     Ecology - soil   No data available.     Ecology - soil   No ecological damage to vegetation.     Effect on cone layer   : Can cause frost damage to vegetation.     Effect on cone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations   : See Section 6.     Product/Packaging disposal recommendations   : See Section 6.  | Aspiration hazard                             | : Not classified   |
| Ecology - general   : No ecological damage caused by this product.     12.2. Persistence and degradability   No ecological damage caused by this product.     12.3. Bioaccumulative potential   No ecological damage caused by this product.     12.3. Bioaccumulative potential   (no bioaccumulation)     Carbon Dioxide, Solid or Dry Ice (124-38-9)   BCF fish 1     BCF fish 1   (no bioaccumulation)     Log Pow   0.83     Log Kow   No ecological damage caused by this product.     12.4. Mobility in soll   No ecological damage caused by this product.     12.4. Mobility in soll   No data available.     Ecology - soil   No ecological damage caused by this product.     12.4. Mobility in soll   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5. Other adverse effects   : Can cause frost damage to vegetation.     Effect on zone layer   : None.     Global warming potential (CO2=1)   : 1     Effect on the global warming   : See Section 6.     Product/Packaging disposal recommendations   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special  |   | ation  |
| 12.   Persistence and degradability     No ecological damage caused by this product.     12.   Bioaccumulative potential     Carbon Dioxide, Solid or Dry lce (124-38-9)     Persistence and degradability   No ecological damage caused by this product.     12.3   Bioaccumulative potential     Carbon Dioxide, Solid or Dry lce (124-38-9)     BGCF fish 1   (no bioaccumulation)     Log Row   0.83     Bioaccumulative potential   No ecological damage caused by this product.     12.4   Mobility in soil     Carbon Dioxide, Solid or Dry lce (124-38-9)   Mobility in soil     Mobility in soil   No data available.     Ecology - soil   No data available.     Ecology - soil   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5   Other adverse effects     Other adverse effects   : Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations   : Dispose of contents/container in accordance wit  |   |  |
| Carbon Dioxide, Solid or Dry Ice (124-38-9)       Persistence and degradability     No ecological damage caused by this product.       12.3.     Bicaccumulative potential       Carbon Dioxide, Solid or Dry Ice (124-38-9)     BCF fish 1       BCF fish 1     (no bicaccumulation)       Log Pow     0.83       Log Kow     Not applicable.       Bicaccumulative potential     No ecological damage caused by this product.       12.4.     Mobility in soil     Carbon Dioxide, Solid or Dry Ice (124-38-9)       Motility in soil     No ecological damage caused by this product.       12.4.     Mobility in soil     No ecological damage caused by this product.       12.4.     Mobility in soil     No data available.       Ecology - soil     No data available.       Ecology - soil     No ecological damage to vegetation.       Effect on ozone layer     : Can cause frost damage to vegetation.       Effect on ozone layer     : None.       Global warming potential [CO2=1]     : 1       Effect on the global warming     : When discharged in large quantities may contribute to the greenhouse effect.       SECTION 13: Disposal considerations     : Dispose of contents/container in accordance with local/regional/national/  | Ecology - general                             | : No ecological damage caused by this product.   |
| Persistence and degradability   No ecological damage caused by this product.     12.3.   Bioaccumulative potential     Carbon Dioxide, Solid or Dry Ice (124-38-9)   BCF fish 1     Log Pow   0.83     Log Kow   Not applicable.     Bicaccumulative potential   No ecological damage caused by this product.     12.4.   Mobility in soil     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soil   No ecological damage caused by this product.     12.4.   Mobility in soil     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soil   No data available.     Ecology - soil   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5.   Other adverse effects     Cher adverse effects   : Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transpor   | 12.2. Persistence and degradability           |  |
| 12.3.   Bioaccumulative potential     Carbon Dioxide, Solid or Dry Ice (124-38-9)     BCF fish 1   (no bioaccumulation)     Log Pow   0.83     Log Kow   Not applicable.     Bioaccumulative potential   No ecological damage caused by this product.     12.4.   Mobility in soil     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soil   No ecological damage caused by this product.     12.4.   Mobility in soil     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soil   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5.   Other adverse effects     Other adverse effects   : Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   Information </td <td>Carbon Dioxide, Solid or Dry Ice (124-3</td> <td>38-9)</td>  | Carbon Dioxide, Solid or Dry Ice (124-3       | 38-9)  |
| Carbon Dioxide, Solid or Dry Ice (124-38-9)     BCF fish 1   (no bioaccumulation)     Log Pow   0.83     Log Kow   Not applicable.     Bioaccumulative potential   No ecological damage caused by this product.     12.4.   Mobility in soil     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soil   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5.   Other adverse effects     Other adverse effects   : Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations   :     13.1.   Waste treatment methods   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   In accordance with DOT     In accordance with DOT   : UN1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845   | Persistence and degradability                 | No ecological damage caused by this product.   |
| Carbon Dioxide, Solid or Dry lce (124-38-9)     BCF fish 1   (no bioaccumulation)     Log Pow   0.83     Log Kow   Not applicable.     Bioaccumulative potential   No ecological damage caused by this product.     12.4.   Mobility in soil     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soil   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5.   Other adverse effects     Other adverse effects   : Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   In accordance with DOT     In accordance with DOT   : UN1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845   | 12.3. Bioaccumulative potential               |  |
| BCF fish 1   (no bioaccumulation)     Log Pow   0.83     Log Kow   Not applicable.     Bioaccumulative potential   No ecological damage caused by this product.     12.4.   Mobility in soil     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soil   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5.   Other adverse effects     Other adverse effects   : Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations   : See Section 6.     Noduct/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   In Nu 1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845  |   | 38-9)  |
| Log Kow   Not applicable.     Bioaccumulative potential   No ecological damage caused by this product.     12.4.   Mobility in soil     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soil   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5.   Other adverse effects     Other adverse effects   : Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   In accordance with DOT     Transport document description   : UN1845 Carbon dioxide, solid, 9     UN-No. (DOT)   : UN1845   |   | ·  |
| Bioaccumulative potential   No ecological damage caused by this product.     12.4.   Mobility in soil   Image: Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soil   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5.   Other adverse effects     Other adverse effects   : Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   In accordance with DOT     In accordance with DOT   : UN1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845   | Log Pow                                       |  |
| 12.4.   Mobility in soil     Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soil   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5.   Other adverse effects     Other adverse effects   : Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations     13.1.   Waste treatment methods     Waste treatment methods   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   In accordance with DOT     In accordance with DOT   : UN1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845   | Log Kow                                       | Not applicable.  |
| Carbon Dioxide, Solid or Dry Ice (124-38-9)     Mobility in soil   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5.   Other adverse effects   : Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations     13.1.   Waste treatment methods     Waste treatment methods   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   In accordance with DOT     Transport document description   : UN1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845  | Bioaccumulative potential                     | No ecological damage caused by this product.   |
| Mobility in soil   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5.   Other adverse effects   Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations     13.1.   Waste treatment methods     Waste treatment methods   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   In accordance with DOT     In accordance with DOT   : UN1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845  | 12.4. Mobility in soil                        |  |
| Mobility in soil   No data available.     Ecology - soil   No ecological damage caused by this product.     12.5.   Other adverse effects   Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations     13.1.   Waste treatment methods     Waste treatment methods   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   In accordance with DOT     In accordance with DOT   : UN1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845  | Carbon Dioxide, Solid or Dry Ice (124-3       | 38-9)  |
| 12.5. Other adverse effects     Other adverse effects     Effect on ozone layer     Section adverse effects     Image: Section adverse effects     Section adverse effects <td>Mobility in soil</td> <td>No data available.</td>  | Mobility in soil                              | No data available.   |
| Other adverse effects   : Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations   :     13.1.   Waste treatment methods     Waste treatment methods   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   : UN1845 Carbon dioxide, solid, 9     In accordance with DOT   : UN1845     Transport document description   : UN1845   | Ecology - soil                                | No ecological damage caused by this product.   |
| Other adverse effects   : Can cause frost damage to vegetation.     Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations   :     13.1.   Waste treatment methods     Waste treatment methods   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   : UN1845 Carbon dioxide, solid, 9     In accordance with DOT   : UN1845     Transport document description   : UN1845   | 12.5 Other adverse offects                    |  |
| Effect on ozone layer   : None.     Global warming potential [CO2=1]   : 1     Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations  |   | Can cause frost damage to vegetation   |
| Global warming potential [CO2=1]: 1Effect on the global warming: When discharged in large quantities may contribute to the greenhouse effect.SECTION 13: Disposal considerations13.1. Waste treatment methodsWaste treatment methods: See Section 6.Product/Packaging disposal recommendations: Dispose of contents/container in accordance with local/regional/national/international<br>regulations. Contact supplier for any special requirements.SECTION 14: Transport informationIn accordance with DOT<br>Transport document description<br>UN-No.(DOT): UN1845 Carbon dioxide, solid, 9<br>UN1845  |   | 5 5  |
| Effect on the global warming   : When discharged in large quantities may contribute to the greenhouse effect.     SECTION 13: Disposal considerations     13.1.   Waste treatment methods     Waste treatment methods   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   : UN1845 Carbon dioxide, solid, 9     In accordance with DOT   : UN1845     Transport document description   : UN1845  | •   | : 1  |
| 13.1.   Waste treatment methods   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   In accordance with DOT     In accordance with DOT   : UN1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845   |   | : When discharged in large quantities may contribute to the greenhouse effect.   |
| 13.1.   Waste treatment methods     Waste treatment methods   : See Section 6.     Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information     In accordance with DOT     Transport document description   : UN1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845   | SECTION 13: Disposal consider                 | ations   |
| Product/Packaging disposal recommendations   : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.     SECTION 14: Transport information   In accordance with DOT     In accordance with DOT   : UN1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845  |   |  |
| regulations. Contact supplier for any special requirements.     SECTION 14: Transport information     In accordance with DOT   In accordance with DOT     Transport document description   : UN1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845   | Waste treatment methods                       | : See Section 6.   |
| In accordance with DOT     Transport document description   : UN1845 Carbon dioxide, solid, 9     UN-No.(DOT)   : UN1845  | Product/Packaging disposal recommendati       | ons : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements. |
| Transport document description: UN1845 Carbon dioxide, solid, 9UN-No.(DOT): UN1845  | SECTION 14: Transport informa                 | tion   |
| UN-No.(DOT) : UN1845  | In accordance with DOT                        |  |
|   | Transport document description                | : UN1845 Carbon dioxide, solid, 9  |
| Proper Shipping Name (DOT) : Carbon dioxide, solid  | UN-No.(DOT)                                   | : UN1845   |
|   | Proper Shipping Name (DOT)                    | : Carbon dioxide, solid  |

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Safety Data Sheet P-4575

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Date of issue: 01/01/1997 Revision date: 02/06/2019 Supersedes: 10/17/2016

| Class (DOT)                           | : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140   |
|---------------------------------------|---|
| Hazard labels (DOT)                   | : 9 - Class 9 (Miscellaneous dangerous materials)   |
|                                       |   |
| DOT Symbols                           | : A - Material is regulated as a hazardous material only when transported by air,W - Material is regulated as a hazardous material only when transported by water   |
| Additional information                |   |
| Emergency Response Guide (ERG) Number | : 120 (UN1013)  |
| Other information                     | : No supplementary information available.   |
| Special transport precautions         | : Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: - Ensure there is adequate ventilation Ensure that containers are firmly secured Ensure cylinder valve is closed and not leaking Ensure valve outlet cap nut or plug (where provided) is correctly fitted. |
| Transport by sea                      |   |
| UN-No. (IMDG)                         | : 1845  |
| Proper Shipping Name (IMDG)           | : CARBON DIOXIDE, SOLID (DRY ICE)   |
| Class (IMDG)                          | : 9 - Miscellaneous dangerous substances and articles   |
| Air transport                         |   |
| UN-No. (IATA)                         | : 1845  |
|                                       | : Carbon dioxide, solid   |
| Proper Shipping Name (IATA)           |   |

| 15.1. US Federal regulations  |  |  |
|---|--|--|
| Carbon Dioxide, Solid or Dry Ice (124-38-9)                               |  |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |  |
| SARA Section 311/312 Hazard Classes Immediate (acute) health hazard       |  |  |

| 15.2. International regulations             |  |
|---|--|
| CANADA                                      |  |
| Carbon Dioxide. Solid or Dry Ice (124-38-9) |  |

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

#### Carbon Dioxide, Solid or Dry Ice (124-38-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)



Safety Data Sheet P-4575

Making our planet more productive" This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1997 Revision date: 02/06/2019 Supersedes: 10/17/2016

15.2.2. National regulations

#### Carbon Dioxide, Solid or Dry Ice (124-38-9)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

| 15.3. US State regulations  |  |  |
|---|--|--|
| Carbon Dioxide, Solid or Dry Ice(124-38-9)                          |  |  |
| U.S California - Proposition 65 - Carcinogens List                  | No   |  |
| U.S California - Proposition 65 - Developmental<br>Toxicity         | No   |  |
| U.S California - Proposition 65 - Reproductive<br>Toxicity - Female | No   |  |
| U.S California - Proposition 65 - Reproductive<br>Toxicity - Male   | No   |  |
| State or local regulations  | U.S Massachusetts - Right To Know List<br>U.S New Jersey - Right to Know Hazardous Substance List<br>U.S Pennsylvania - RTK (Right to Know) List |  |

| SECTION 16: Other information |   |
|-------------------------------|---|
| Revision date                 | : 02/06/2019  |
|                               |   |
| NFPA health hazard            | : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.  |
| NFPA fire hazard              | : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. |
| NFPA reactivity               | : 0 - Material that in themselves are normally stable, even under fire conditions.  |
| NFPA specific hazard          | : SA - This denotes gases which are simple asphyxiants.   |
|                               |   |

SDS US (GHS HazCom 2012) - Praxair

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.