

# **Crystal Clear®** SAFETY DATA SHEET

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

# Section 1. Identification

| GHS product identifier                                     | : Crystal Clear®  |
|--|---|
| Product code   | : I70337 (US)   |
| Other means of<br>identification                           | : For professional and consumer use.  |
| Product type   | : Liquid.   |
| Relevant identified uses of                                | f the substance or mixture and uses advised against   |
| Supplier's details   | : FloraLife, a Division of Smithers-Oasis Company<br>751 Thunderbolt Drive<br>Walterboro, SC 29488<br>USA<br>info@floralife.com<br>(800) 323-3689 |
| Emergency telephone<br>number (with hours of<br>operation) | : (800) 424-9300 (CHEMTREC)   |
| Rocky Mountain Poison<br>and Drug Center                   | : North America: 1-800-222-1222<br>International: 1-303-623-5716  |

# Section 2. Hazards identification

| OSHA/HCS status                            | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).   |
|--|---|
| Classification of the substance or mixture | : SKIN SENSITIZATION - Category 1   |
| GHS label elements                         |   |
| Hazard pictograms                          | :   |
| Signal word                                | : Warning   |
| Hazard statements                          | : May cause an allergic skin reaction.  |
| Precautionary statements                   |   |
| Prevention                                 | : Wear protective gloves. Avoid breathing vapor.  |
| Response                                   | : Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. |
| Storage                                    | : Not applicable.   |
| Disposal                                   | : Dispose of contents and container in accordance with all local, regional, national and international regulations.                                   |
| Hazards not otherwise<br>classified        | : None known.   |

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## Section 3. Composition/information on ingredients

#### Substance/mixture

#### Other means of identification

- : Mixture
  - : For professional and consumer use.

| Ingredient name               | %     | CAS number |
|-------------------------------|-------|------------|
| Citric acid                   | ≤3    | 77-92-9    |
| Halogenated nitrogen compound | <1    | -          |
| Heterocyclic compound         | <0.06 | -          |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

| Eye contact               | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.  |
|---------------------------|---|
| Inhalation                | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If<br>not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial<br>respiration or oxygen by trained personnel. It may be dangerous to the person providing<br>aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects<br>persist or are severe. If unconscious, place in recovery position and get medical<br>attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,<br>tie, belt or waistband.  |
| Skin contact              | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.   |
| Ingestion                 | : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Most important symptoms/e | ffects, acute and delayed   |

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|--------------------------------|--|---------|--------|------|
| Skin contact                   | : Adverse symptoms may include the following:<br>irritation<br>redness |         |        |      |
| Inhalation                     | : No specific data.  |         |        |      |
| Eye contact                    | : No specific data.  |         |        |      |
| Over-exposure signs/syn        | <u>ptoms</u>   |         |        |      |
| Ingestion                      | : No known significant effects or critical hazards.                    |         |        |      |
| Skin contact                   | : May cause an allergic skin reaction.                                 |         |        |      |
| Inhalation                     | : No known significant effects or critical hazards.                    |         |        |      |
| Eye contact                    | : No known significant effects or critical hazards.                    |         |        |      |
| Potential acute health eff     | <u>icts</u>  |         |        |      |

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## Section 4. First aid measures

| Ingestion                  | : No specific data.   |
|----------------------------|---|
| Indication of immediate me | dical attention and special treatment needed, if necessary  |
| Notes to physician         | <ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large<br/>quantities have been ingested or inhaled.</li> </ul>   |
| Specific treatments        | : No specific treatment.  |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

#### See toxicological information (Section 11)

| Section 5. Fire-fighting measures                 |   |  |
|---|---|--|
| Extinguishing media                               |   |  |
| Suitable extinguishing media                      | : Use an extinguishing agent suitable for the surrounding fire.   |  |
| Unsuitable extinguishing media                    | : None known.   |  |
| Specific hazards arising from the chemical        | : In a fire or if heated, a pressure increase will occur and the container may burst.   |  |
| Hazardous thermal decomposition products          | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide  |  |
| Special protective actions for fire-fighters      | <ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if<br/>there is a fire. No action shall be taken involving any personal risk or without suitable<br/>training.</li> </ul> |  |
| Special protective<br>equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.   |  |

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. **For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel". **Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Methods and materials for containment and cleaning up

Small spill
 Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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## Section 6. Accidental release measures

| Large spill | : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect   |
|-------------|---|
|             | spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or<br>diatomaceous earth and place in container for disposal according to local regulations<br>(see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated<br>absorbent material may pose the same hazard as the spilled product. Note: see<br>Section 1 for emergency contact information and Section 13 for waste disposal. |

## Section 7. Handling and storage

| Precautions for safe handling                                      |  |
|--|--|
| Protective measures  | Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.  |
| Advice on general<br>occupational hygiene                          | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.  |
| Conditions for safe storage,<br>including any<br>incompatibilities | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

| Ingredient name               | Exposure limits |
|-------------------------------|-----------------|
| Citric acid                   | None.           |
| Halogenated nitrogen compound | None.           |
| Heterocyclic compound         | None.           |

#### **Biological exposure indices**

No exposure indices known.

| Appropriate engineering<br>controls | :        | Good general ventilation should be sufficient to control worker exposure to airborne contaminants.  |
|-------------------------------------|----------|---|
| Environmental exposure controls     | :        | Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process equipment<br>will be necessary to reduce emissions to acceptable levels. |
| Individual protection measure       | <u>s</u> |   |

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before<br/>eating, smoking and using the lavatory and at the end of the working period.<br/>Appropriate techniques should be used to remove potentially contaminated clothing.<br/>Contaminated work clothing should not be allowed out of the workplace. Wash<br/>contaminated clothing before reusing. Ensure that eyewash stations and safety<br/>showers are close to the workstation location.

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# Section 8. Exposure controls/personal protection

| Eye/face protection    | : | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.  |
|------------------------|---|--|
| Skin protection        |   |  |
| Hand protection        | : | Chemical-resistant, impervious gloves complying with an approved standard should be<br>worn at all times when handling chemical products if a risk assessment indicates this is<br>necessary. Considering the parameters specified by the glove manufacturer, check<br>during use that the gloves are still retaining their protective properties. It should be<br>noted that the time to breakthrough for any glove material may be different for different<br>glove manufacturers. In the case of mixtures, consisting of several substances, the<br>protection time of the gloves cannot be accurately estimated. |
| Body protection        | : | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| Other skin protection  | : | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| Respiratory protection | : | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.   |

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

| Appearance  |                                  |       |
|---|----------------------------------|-------|
| Physical state  | : Liquid.                        |       |
| Color   | : Colorless to light yellow.     |       |
| Odor  | : Not available.                 |       |
| Odor threshold  | : Not available.                 |       |
| рН  | : 2.1 to 2.3                     |       |
| Melting point/freezing point                            | : Not available.                 |       |
| Boiling point, initial boiling point, and boiling range | : Not available.                 |       |
| Flash point   | : Not available.                 |       |
| Evaporation rate  | : Not available.                 |       |
| Flammability  | : Not available.                 |       |
| Lower and upper explosion limit/flammability limit      | : Not available.                 |       |
| Vapor pressure  | : Not available.                 |       |
| Relative vapor density                                  | : Not available.                 |       |
| Relative density  | : Not available.                 |       |
| Solubility  | : Not available.                 |       |
| Solubility in water                                     | : Not available.                 |       |
| Partition coefficient: n-<br>octanol/water              | : Not applicable.                |       |
| Auto-ignition temperature                               |                                  |       |
| Decomposition temperature                               | : Not available.                 |       |
| Viscosity   | : Not available.                 |       |
| Flow time (ISO 2431)                                    | : Not available.                 |       |
| Particle characteristics                                |                                  |       |
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# Section 9. Physical and chemical properties and safety characteristics

Median particle size

: Not applicable.

| Section 10. Stabi                  | lity and reactivity  |
|------------------------------------|--|
| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| Chemical stability                 | : The product is stable.   |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| Conditions to avoid                | : No specific data.  |
| Incompatible materials             | : No specific data.  |
| Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## Section 11. Toxicological information

#### Information on toxicological effects

No (eco) toxicological information available on the product.

#### Acute toxicity

| Product/ingredient name | Result    | Species | Dose     | Exposure |
|-------------------------|-----------|---------|----------|----------|
| Citric acid             | LD50 Oral | Rat     | 3 g/kg   | -        |
| Heterocyclic compound   | LD50 Oral | Rat     | 53 mg/kg | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure     | Observation |
|-------------------------|--------------------------|---------|-------|--------------|-------------|
| Citric acid             | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 750 | -           |
|                         |                          |         |       | ug           |             |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 | -           |
|                         |                          |         |       | mg           |             |
|                         | Skin - Moderate irritant | Rabbit  | -     | 0.5 MI       | -           |
| Halogenated nitrogen    | Eyes - Severe irritant   | Rabbit  | -     | 100 mg       | -           |
| compound                |                          |         |       | -            |             |
|                         | Skin - Severe irritant   | Rabbit  | -     | 500 mg       | -           |
| Heterocyclic compound   | Skin - Severe irritant   | Human   | -     | 0.01 %       | -           |

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

# Section 11. Toxicological information

#### Specific target organ toxicity (repeated exposure)

| Name                          | Category   | Route of<br>exposure | Target organs     |
|-------------------------------|------------|----------------------|-------------------|
| Halogenated nitrogen compound | Category 1 | inhalation           | respiratory tract |

#### Aspiration hazard

Not available.

| Information on the likely | : Not available. |
|---------------------------|------------------|
| Information on the likely | : Not available. |

#### routes of exposure Potential acute health effects

| Eye contact  | : No known significant effects or critical hazards. |
|--------------|---|
| Inhalation   | : No known significant effects or critical hazards. |
| Skin contact | : May cause an allergic skin reaction.              |
| Ingestion    | : No known significant effects or critical hazards. |

#### Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact  | : No specific data.  |
|--------------|--|
| Inhalation   | : No specific data.  |
| Skin contact | : Adverse symptoms may include the following:<br>irritation<br>redness |
| Ingestion    | : No specific data.  |

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

| Delayed and infinediate ener   | cts and disc entonic effects from short and long term exposure  |
|--------------------------------|---|
| Short term exposure            |   |
| Potential immediate<br>effects | : Not available.  |
| Potential delayed effects      | : Not available.  |
| Long term exposure             |   |
| Potential immediate<br>effects | : Not available.  |
| Potential delayed effects      | : Not available.  |
| Potential chronic health eff   | ects  |
| Not available.                 |   |
| General                        | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity                | : No known significant effects or critical hazards.   |
| Mutagenicity                   | : No known significant effects or critical hazards.   |
| Teratogenicity                 | : No known significant effects or critical hazards.   |
| Developmental effects          | : No known significant effects or critical hazards.   |
| Fertility effects              | : No known significant effects or critical hazards.   |
|                                |   |

#### Numerical measures of toxicity

Acute toxicity estimates

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## Section 11. Toxicological information

| Product/ingredient name       | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapors)<br>(mg/l) | Inhalation<br>(dusts and<br>mists) (mg/<br>I) |
|-------------------------------|------------------|-------------------|--------------------------------|----------------------------------|---|
| Halogenated nitrogen compound | 3000             | N/A               | N/A                            | N/A                              | N/A   |
|                               | 118              | N/A               | N/A                            | N/A                              | 0.24  |
|                               | 53               | 50                | N/A                            | 0.5                              | N/A   |

# Section 12. Ecological information

#### <u>Toxicity</u>

No (eco) toxicological information available on the product.

| Product/ingredient name       | Result                              | Species                                  | Exposure |
|-------------------------------|-------------------------------------|--|----------|
| Citric acid                   | Acute LC50 160000 µg/l Marine water | Crustaceans - Carcinus maenas -<br>Adult | 48 hours |
| Halogenated nitrogen compound | Acute EC50 0.86 ppm Fresh water     | Daphnia - Daphnia magna                  | 48 hours |
| •                             | Acute LC50 0.55 ppm Fresh water     | Fish - Pimephales promelas               | 96 hours |

#### Persistence and degradability

Not available.

#### <u>Mobility in soil</u>

| coefficient (Koc)Other adverse effects: No known significant effects or critical hazards. |                       |   |
|---|-----------------------|---|
| coefficient (Koc)   | Other adverse effects | : No known significant effects or critical hazards. |
| Soil/water partition : Not available.   |                       | : Not available.                                    |

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                               | DOT<br>Classification | TDG<br>Classification | Mexico<br>Classification | IMDG           | IATA           |
|-------------------------------|-----------------------|-----------------------|--------------------------|----------------|----------------|
| UN number                     | Not regulated.        | Not regulated.        | Not regulated.           | Not regulated. | Not regulated. |
| UN proper<br>shipping name    | -                     | -                     | -                        | -              | -              |
| Transport<br>hazard class(es) | -                     | -                     | -                        | -              | -              |
| Packing group                 | -                     | -                     | -                        | -              | -              |

| Crystal Clear®           |              |            |     |     |     |
|--------------------------|--------------|------------|-----|-----|-----|
| Section 14.              | Transport in | nformation |     |     |     |
| Environmental<br>hazards | No.          | No.        | No. | No. | No. |

# Section 15. Regulatory information

U.S. Federal regulations

: TSCA 12(b) one-time export notification: Not applicable. TSCA 12(b) annual export notification: Not applicable.

#### SARA 311/312 Classification

: SKIN SENSITIZATION - Category 1

#### **Composition/information on ingredients**

| Name                          | %           | Classification                           |
|-------------------------------|-------------|--|
| Citric acid                   | ≤3          | EYE IRRITATION - Category 2A             |
| Halogenated nitrogen compound | Proprietary | ACUTE TOXICITY (oral) - Category 3       |
|                               |             | ACUTE TOXICITY (inhalation) - Category 2 |
|                               |             | SKIN IRRITATION - Category 2             |
|                               |             | SERIOUS EYE DAMAGE - Category 1          |
|                               |             | SKIN SENSITIZATION - Category 1          |
|                               |             | SPECIFIC TARGET ORGAN TOXICITY (REPEATED |
|                               |             | EXPOSURE) - Category 1                   |
| Heterocyclic compound         | Proprietary | ACUTE TOXICITY (oral) - Category 3       |
|                               |             | ACUTE TOXICITY (dermal) - Category 2     |
|                               |             | ACUTE TOXICITY (inhalation) - Category 2 |
|                               |             | SKIN CORROSION - Category 1C             |
|                               |             | SERIOUS EYE DAMAGE - Category 1          |
|                               |             | SKIN SENSITIZATION - Category 1A         |

#### <u>SARA 313</u>

Not applicable.

#### Inventory list

| Australia         | : All components are listed or exempted.  |
|-------------------|---|
| Canada            | : At least one component is not listed in DSL but all such components are listed in NDSL.                   |
| China             | : All components are listed or exempted.  |
| Japan             | : Japan inventory (CSCL): All components are listed or exempted.<br>Japan inventory (ISHL): Not determined. |
| New Zealand       | : All components are listed or exempted.  |
| Philippines       | : All components are listed or exempted.  |
| Republic of Korea | : All components are listed or exempted.  |
| Taiwan            | : All components are listed or exempted.  |
| United States     | : All components are active or exempted.  |

## Section 16. Other information

#### Procedure used to derive the classification

| Classification SKIN SENSITIZATION - Category 1 |              |                        | Justification |                    |          |  |
|--|--------------|------------------------|---------------|--------------------|----------|--|
|  |              |                        |               | Calculation method |          |  |
| History  |              |                        |               |                    |          |  |
| Date of printing                               | : 1/25/2023  |                        |               |                    |          |  |
| Date of issue/Date of revision                 | : 1/25/2023  |                        |               |                    |          |  |
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## Section 16. Other information

| Key to abbreviations | <ul> <li>ATE = Acute Toxicity Estimate<br/>BCF = Bioconcentration Factor<br/>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br/>IATA = International Air Transport Association<br/>IBC = Internediate Bulk Container<br/>IMDG = International Maritime Dangerous Goods<br/>LogPow = logarithm of the octanol/water partition coefficient<br/>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973<br/>as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br/>N/A = Not available<br/>SGG = Segregation Group<br/>UN = United Nations</li> </ul> |
|----------------------|--|
| References           | : Not available.   |

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.