SAFETY DATA SHEET

Ammonium Sulfate 21-0-0

Section 1. Identification

Product identifier : Ammonium Sulfate 21-0-0
Product type : solid
Product code : PA182U

Uses
Area of application : Professional applications
Material uses : Fertilizers.

Supplier
Supplier's details : Yara North America, Inc.
Address
Street : 100 North Tampa Street, Suite 3200
Postal code : 33602
City : TAMPA
Country : United States

Telephone number : +1 813 222 5700
Fax no. : +1 813 875 5735
e-mail address of person responsible for this SDS : yna-hesq@yara.com
Emergency telephone number (with hours of operation) : US: Chemtrec 24-hours Emergency Response: 1-800-424-9300
Canada: 24 Hour Emergency Service, (Canutec 613-996-6666)

National advisory body/Poison Center
Name : The National Poisons Emergency number
Telephone number : 1 800 222 1222

Section 2. Hazards identification

OSHA/HCS status : This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture. : Not classified.

GHS label elements
Signal word : No signal word.
Hazard statements: Not applicable.

Precautionary statements

General: Not applicable.

Hazards not otherwise classified: May be harmful if swallowed. Product forms slippery surface when combined with water.

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number/other identifiers</td>
<td></td>
</tr>
<tr>
<td>Other means of identification</td>
<td>Ammonium Sulphate</td>
</tr>
<tr>
<td>CAS number</td>
<td>7783-20-2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid ammonium salt (1:2)</td>
<td>7783-20-2</td>
<td>&gt;= 80 - &lt; 100</td>
</tr>
</tbody>
</table>

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: Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact: Wash with soap and water. Get medical attention if irritation develops.

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: No known significant effects or critical hazards.
Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

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 identified.
- **Specific hazards arising from the chemical** : No specific fire or explosion hazard.
- **Hazardous thermal decomposition products** : Decomposition products may include the following materials: nitrogen oxides sulfur oxides Avoid breathing dusts, vapors or fumes from burning materials.
  In case of inhalation of decomposition products in a fire, symptoms may be delayed.

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective 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.

**Remark** : Non-flammable.

**Remark** : None.
Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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 non-emergency 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 : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Precautions for safe handling : 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.

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general 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, including any 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.

### Section 8. Exposure controls/personal protection

**Control parameters**

**Occupational exposure limits**

- None.

**Appropriate engineering 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 they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

**Hygiene measures**

- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. A washing facility or water for eye and skin cleaning purposes should be present.

**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.

**Skin protection**

**Hand protection**

- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection**

- Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

**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: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance
Physical state: solid
Color: White.
Odor: Odorless.
Odor threshold: Not determined.
pH: 5 - 6 [Conc.: 100 g/l] @ 25 °C (77 °F)

Melting/freezing point: Decomposition temperature: > 350 °C (> 662 °F)

Boiling/condensation point: Not determined.
Sublimation temperature: Not determined.
Flash point: Not determined.
Fire point: Not determined.
Evaporation rate: Not determined.
Flammability (solid, gas): Non-flammable.
Lower and upper explosive (flammable) limits: Lower: Not determined.
Upper: Not determined.
Vapor pressure: < 0.000001 hPa
Relative density: 1.77 @ 25 °C (77 °F)
Solubility: Not determined.
Solubility in water: 764 g/l
Partition coefficient: n-octanol/water: Not determined.
Auto-ignition temperature: Not determined.
Decomposition temperature: > 350 °C (> 662 °F)
Viscosity: Dynamic: Not determined.
Kinematic: Not determined.
Explosive properties: None.
Oxidizing properties: None

Section 10. Stability 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  : Avoid contamination by any source including metals, dust and organic materials.
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

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid ammonium salt (1:2)</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>4,250 mg/kg OECD 401</td>
<td>Not applicable.</td>
<td>IUCLID</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>&gt; 5,000 mg/kg OECD 434</td>
<td>Not applicable.</td>
<td></td>
</tr>
</tbody>
</table>

Conclusion/Summary  : May be harmful if swallowed.

Irritation/Corrosion

Conclusion/Summary

Skin  : No known significant effects or critical hazards.
Eyes  : No known significant effects or critical hazards.
Respiratory  : No known significant effects or critical hazards.

Sensitization

Conclusion/Summary

Skin  : No known significant effects or critical hazards.
Respiratory  : No known significant effects or critical hazards.

Mutagenicity

Conclusion/Summary  : No known significant effects or critical hazards.

Carcinogenicity

<table>
<thead>
<tr>
<th>Product/ingredient</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of issue : 08/22/2018</td>
<td>Page:7/15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
name

Sulfuric acid ammonium salt (1:2)  Negative - Oral - NOAEL  Rat  284 mg/kg bw/day  Not applicable.  IUCLID 5

Conclusion/Summary : No known significant effects or critical hazards.

Reproductive toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Maternal toxicity</th>
<th>Fertility</th>
<th>Development toxin</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid ammonium salt (1:2)</td>
<td>Not applicable.</td>
<td>Negative</td>
<td>Negative</td>
<td>Rat</td>
<td>Oral: 1500 mg/kg bw/day OECD 422</td>
<td>Not applicable.</td>
<td>IUCLID 5</td>
</tr>
</tbody>
</table>

Conclusion/Summary : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)
No known significant effects or critical hazards.

Specific target organ toxicity (repeated exposure)
No known significant effects or critical hazards.

Aspiration hazard
No known significant effects or critical hazards.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact : No known significant effects or critical hazards.
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 : No specific data.
Ingestion : No specific data.

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

Short term exposure
Potential immediate effects: Not available.
Potential delayed effects: Not available.

Long term exposure
Potential immediate effects: Not available.
Potential delayed effects: Not available.

Potential chronic health effects

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid ammonium salt (1:2)</td>
<td>NOAEL Oral</td>
<td>Rat</td>
<td>256 mg/kg</td>
<td>365 days</td>
<td>IUCLID 5</td>
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<tr>
<td></td>
<td>NOEC Inhalation</td>
<td>Rat</td>
<td>0.3 mg/kg</td>
<td>14 days 8 hours per day</td>
<td>IUCLID 5</td>
</tr>
</tbody>
</table>

Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Effects on or via lactation: No known significant effects or critical hazards.
Other effects: No known significant effects or critical hazards.

Over-exposure signs/symptoms
Eye contact: No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.

Numerical measures of toxicity

Acute toxicity estimates
Not available.

Section 12. Ecological information

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid ammonium salt (1:2)</td>
<td>Acute EC50 169 mg/l Fresh water</td>
<td>Daphnia</td>
<td>48 h</td>
<td>IUCLID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute EC50 1,605</td>
<td>Algae</td>
<td>120 h</td>
<td>IUCLID</td>
<td></td>
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</tbody>
</table>

Date of issue: 08/22/2018
Conclusion/Summary : No known significant effects or critical hazards.

Persistence and degradability

Conclusion/Summary : No known significant effects or critical hazards.

Bioaccumulative potential

Conclusion/Summary : No known significant effects or critical hazards.

Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Mobility : This product may move with surface or groundwater flows because its water solubility is: high

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Product

Methods of disposal : 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. 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

<table>
<thead>
<tr>
<th>Regulation: UN Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN number</td>
</tr>
<tr>
<td>14.2 UN proper shipping name</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
</tr>
<tr>
<td>14.4 Packing group</td>
</tr>
</tbody>
</table>

Date of issue : 08/22/2018
### 14.5 Environmental hazards

<table>
<thead>
<tr>
<th>Environmental hazards</th>
<th>No.</th>
</tr>
</thead>
</table>

### Additional information

**Environmental hazards**: No.

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### Regulation: IMDG

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>Not regulated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
</tr>
</tbody>
</table>

**Additional information**

**Marine pollutant**: No.

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### Regulation: IATA

<table>
<thead>
<tr>
<th>14.1 UN number</th>
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</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
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</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
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</tbody>
</table>

**Additional information**

**Marine pollutant**: No.

---

### Regulation: DOT Classification

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>Not regulated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
</tr>
</tbody>
</table>

**Additional information**

**Marine pollutant**: Not available.

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### Regulation: TDG Class

<table>
<thead>
<tr>
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<td>Not applicable.</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
</tr>
</tbody>
</table>

**Date of issue**: 08/22/2018
Environmental hazards: No.

14.6 Special precautions for user: Transport within user’s premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.

IMSBC
Bulk cargo shipping name: AMMONIUM SULPHATE
Class: Not applicable.
Group: C
Marpol V: Non-HME

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

Section 15. Regulatory information

United States
U.S. Federal regulations: TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): Not listed
Clean Air Act Section 602 Class I Substances: Not listed
Clean Air Act Section 602 Class II Substances: Not listed
DEA List I Chemicals (Precursor Chemicals): Not listed
DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304
Composition/information on ingredients
No products were found.

SARA 304 RQ: Not applicable.

SARA 311/312
Classification: Not applicable.
Composition/information on ingredients

SARA 313

Form R - Reporting requirements

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid ammonium salt (1:2)</td>
<td>7783-20-2</td>
<td>0</td>
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</table>

Supplier notification

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
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<tr>
<td>Sulfuric acid ammonium salt (1:2)</td>
<td>7783-20-2</td>
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</tr>
</tbody>
</table>

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations
Massachusetts: The following components are listed:
Sulfuric acid ammonium salt (1:2)
New York: None of the components are listed.
New Jersey: None of the components are listed.
Pennsylvania: The following components are listed:
Sulfuric acid ammonium salt (1:2)

California Prop. 65
⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Inventory list
Philippines inventory (PICCS): All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
Japan inventory: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Australia inventory (AICS): All components are listed or exempted.
Canada inventory: All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.
United States inventory (TSCA 8b): All components are listed or exempted.
EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.
Canada: All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)
Flammability
Health
Instability/Reactivity
Special

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified.</td>
<td>Calculation method</td>
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History

<table>
<thead>
<tr>
<th>Date of printing</th>
<th>08/27/2018</th>
</tr>
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<tbody>
<tr>
<td>Date of issue/Date of revision</td>
<td>08/22/2018</td>
</tr>
<tr>
<td>Date of previous issue</td>
<td>12/04/2014</td>
</tr>
<tr>
<td>Version</td>
<td>1.2</td>
</tr>
<tr>
<td>Prepared by</td>
<td>Yara Chemical Compliance (YCC).</td>
</tr>
<tr>
<td>Key to abbreviations</td>
<td>ATE = Acute Toxicity Estimate</td>
</tr>
<tr>
<td></td>
<td>BCF = Bioconcentration Factor</td>
</tr>
<tr>
<td></td>
<td>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</td>
</tr>
<tr>
<td></td>
<td>IATA = International Air Transport Association</td>
</tr>
<tr>
<td></td>
<td>IBC = Intermediate Bulk Container</td>
</tr>
<tr>
<td></td>
<td>IMDG = International Maritime Dangerous Goods</td>
</tr>
<tr>
<td></td>
<td>LogPow = logarithm of the octanol/water partition coefficient</td>
</tr>
<tr>
<td></td>
<td>UN = United Nations</td>
</tr>
</tbody>
</table>

Key data sources

- EU REACH IUCLID5 CSR.
- Sphera Solutions Inc., 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.

|| 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.