



## Safety Data Sheet

### Section 1. Identification

**Product name** : TAMURA® TLF-204-NH(20-36) Solder Paste 96.5Sn/3.0Ag/.5Cu  
**Product code** : 160126  
**Product type** : Solid.  
**Date of issue/Date of revision** : September 20 2023.

| Manufacturer - Supplier  | Telephone no.:  | Emergency phone:                              |
|--|---|---|
| Alpha Assembly Solutions Inc.<br>Global Headquarters<br>140 Centennial Avenue<br>Piscataway, NJ 08854                  | Toll Free: (800) 367-5460<br>Main Phone: (908) 791-3000 | DOMESTIC NORTH AMERICA<br>202-464-2554        |
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### 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** : SERIOUS EYE DAMAGE - Category 1

#### GHS label elements

##### Hazard pictograms

:



**Signal word** : Danger

**Hazard statements** : Causes serious eye damage.

#### Precautionary statements

**Prevention** : Wear eye or face protection.

**Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified** : None known.

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## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

| Ingredient name             | %      | CAS number |
|-----------------------------|--------|------------|
| tin                         | 80-100 | 7440-31-5  |
| 2-(2-hexyloxyethoxy)ethanol | 1-10   | 112-59-4   |
| silver                      | 1-10   | 7440-22-4  |

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 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** : Get medical attention immediately. Call a poison center or physician. Check for and remove any contact lenses. Immediately flush eyes with running water for at least 30 minutes, keeping eyelids open. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that mists are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Chemical burns must be treated promptly by a physician. 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/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.

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## Section 4. First aid measures

- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

### 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.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that mists are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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** : No specific fire or explosion hazard.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

**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.

## 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. 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 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).

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## Section 6. Accidental release measures

### Methods and materials for containment and cleaning up

- Small spill** : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, 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

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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 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. Store locked up. 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

|                             |  |
|-----------------------------|--|
| tin                         | <b>ACGIH TLV (United States, 3/2017).</b><br>TWA: 2 mg/m <sup>3</sup> , (as Sn) 8 hours.<br><b>NIOSH REL (United States, 10/2016).</b><br>TWA: 2 mg/m <sup>3</sup> , (as Sn) 10 hours.<br><b>OSHA PEL (United States, 6/2016).</b><br>TWA: 2 mg/m <sup>3</sup> , (as Sn) 8 hours.  |
| 2-(2-hexyloxyethoxy)ethanol | <b>Manufacturer (in Switzerland or another country) (United States, 9/2005). Absorbed through skin.</b><br>TWA: 20 ppm 8 hours.  |
| silver                      | <b>ACGIH TLV (United States, 3/2017). Notes: Substances for which the TLV is higher than the OSHA Permissible Exposure Limit (PEL) and/or the NIOSH Recommended Exposure Limit (REL). See CFR 58(124) :36338-33351, June 30, 1993, for revised OSHA PEL.</b><br>TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Dust and fumes<br><b>NIOSH REL (United States, 10/2016). Notes: as Ag</b><br>TWA: 0.01 mg/m <sup>3</sup> , (as Ag) 10 hours. Form: METAL DUST AND SOLUBLE<br><b>OSHA PEL 1989 (United States, 3/1989).</b> |

## Section 8. Exposure controls/personal protection

TWA: 0.01 mg/m<sup>3</sup>, (as Ag) 8 hours.  
**OSHA PEL (United States, 6/2016).**  
TWA: 0.01 mg/m<sup>3</sup>, (as Ag) 8 hours.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the 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** : Solid.
- Color** : Gray.
- Odor** : Terpene
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.

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## Section 9. Physical and chemical properties and safety characteristics

|  |                   |
|--|-------------------|
| <b>Boiling point, initial boiling point, and boiling range</b> | : Not available.  |
| <b>Flash point</b>   | : Not applicable. |
| <b>Evaporation rate</b>  | : Not available.  |
| <b>Flammability</b>  | : Not available.  |
| <b>Lower and upper explosion limit/flammability limit</b>      | : Not applicable. |
| <b>Vapor pressure</b>  | : Not available.  |
| <b>Relative vapor density</b>                                  | : Not applicable. |
| <b>Relative density</b>  | : Not available.  |
| <b>Solubility</b>  | : Not available.  |
| <b>VOC</b>   | : 42 g/l          |
| <b>Partition coefficient: n-octanol/water</b>                  | : Not applicable. |
| <b>Auto-ignition temperature</b>                               | : Not applicable. |
| <b>Decomposition temperature</b>                               | : Not available.  |
| <b>Viscosity</b>   | : Not applicable. |
| <b>Flow time (ISO 2431)</b>                                    | : Not available.  |
| <b><u>Particle characteristics</u></b>                         |                   |
| <b>Median particle size</b>                                    | : Not available.  |

## Section 10. Stability and reactivity

|  |   |
|--|---|
| <b>Reactivity</b>                              | : No specific test data related to reactivity available for this product or its ingredients.  |
| <b>Chemical stability</b>                      | : The product is stable.  |
| <b>Possibility of hazardous reactions</b>      | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>Incompatibility with various substances</b> | : Slightly reactive or incompatible with the following materials: oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture. |
| <b>Hazardous decomposition products</b>        | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |
| <b>Hazardous polymerization</b>                | : Under normal conditions of storage and use, hazardous polymerization will not occur.  |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name     | Result      | Species    | Dose        | Exposure |
|-----------------------------|-------------|------------|-------------|----------|
| tin                         | LD50 Oral   | Rat        | >2000 mg/kg | -        |
| 2-(2-hexyloxyethoxy)ethanol | LD50 Dermal | Rabbit     | 1.4 g/kg    | -        |
|                             | LD50 Oral   | Rat        | 2400 mg/kg  | -        |
| silver                      | LD Oral     | Guinea pig | >5 g/kg     | -        |
|                             | LD Oral     | Mouse      | >10 g/kg    | -        |
|                             | LD50 Oral   | Mouse      | 100 mg/kg   | -        |
|                             | LD50 Oral   | Rat        | >2000 mg/kg | -        |

#### Irritation/Corrosion

## Section 11. Toxicological information

| Product/ingredient name     | Result                   | Species | Score | Exposure                   | Observation |
|-----------------------------|--------------------------|---------|-------|----------------------------|-------------|
| 2-(2-hexyloxyethoxy)ethanol | Eyes - Moderate irritant | Rabbit  | -     | 5 milligrams               | -           |
|                             | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 750<br>Micrograms | -           |
|                             | Skin - Mild irritant     | Rabbit  | -     | 24 hours 10<br>milligrams  | -           |
|                             | Skin - Mild irritant     | Rabbit  | -     | 500<br>milligrams          | -           |
|                             | Skin - Severe irritant   | Rabbit  | -     | 24 hours 500<br>milligrams | -           |

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- 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** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

Continued on next page

## Section 11. Toxicological information

### 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

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route  | ATE value      |
|--------|----------------|
| Oral   | 57485.03 mg/kg |
| Dermal | 33532.93 mg/kg |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                           | Species                               | Exposure |
|-------------------------|----------------------------------|---------------------------------------|----------|
| silver                  | Acute EC50 1.4 µg/l Marine water | Algae - Chroomonas sp.                | 4 days   |
|                         | Acute EC50 0.0092 mg/l           | Daphnia                               | 48 hours |
|                         | Acute EC50 0.24 µg/l Fresh water | Daphnia - Daphnia magna               | 48 hours |
|                         | Acute LC50 11 µg/l Fresh water   | Crustaceans - Ceriodaphnia reticulata | 48 hours |
|                         | Acute LC50 0.00213 mg/l          | Fish                                  | 96 hours |
|                         | Acute LC50 0.00238 mg/l          | Fish                                  | 96 hours |
|                         | Acute LC50 0.00276 mg/l          | Fish                                  | 96 hours |
|                         | Acute LC50 0.00312 mg/l          | Fish                                  | 96 hours |
|                         | Acute LC50 0.00342 mg/l          | Fish                                  | 96 hours |
|                         | Chronic NOEC 5 mg/l Marine water | Algae - Glenodinium halli             | 72 hours |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name     | LogP <sub>ow</sub> | BCF | Potential |
|-----------------------------|--------------------|-----|-----------|
| 2-(2-hexyloxyethoxy)ethanol | 1.7                | -   | low       |
| silver                      | -                  | 70  | low       |

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

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## Section 12. Ecological information

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

## 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

|                                   | <b>DOT<br/>Classification</b> | <b>TDG<br/>Classification</b> | <b>Mexico<br/>Classification</b> | <b>UN</b>      | <b>IMDG</b>    | <b>IATA</b>    |
|-----------------------------------|-------------------------------|-------------------------------|----------------------------------|----------------|----------------|----------------|
| <b>UN number</b>                  | Not regulated.                | Not regulated.                | Not regulated.                   | Not regulated. | Not regulated. | Not regulated. |
| <b>UN proper shipping name</b>    | -                             | -                             | -                                | -              | -              | -              |
| <b>Transport hazard class(es)</b> | -                             | -                             | -                                | -              | -              | -              |
| <b>Packing group</b>              | -                             | -                             | -                                | -              | -              | -              |
| <b>Environmental hazards</b>      | No.                           | No.                           | No.                              | No.            | No.            | No.            |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 5(a)2 proposed significant new use rule (SNUR): No products were found.  
TSCA 5(a)2 final significant new use rule (SNUR): No products were found.  
TSCA 12(b) one-time export notification: No products were found.  
TSCA 12(b) annual export notification: No products were found.

**United States inventory (TSCA 8b)** : All components are listed or exempted.

### SARA 302/304

#### Composition/information on ingredients

No products were found.

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## Section 15. Regulatory information

### SARA 311/312

**Classification** : SERIOUS EYE DAMAGE - Category 1

### SARA 313

|                                 | Product name                | CAS number | %    |
|---------------------------------|-----------------------------|------------|------|
| Form R - Reporting requirements | 2-(2-hexyloxyethoxy)ethanol | 112-59-4   | 1-10 |
|                                 | silver                      | 7440-22-4  | 1-10 |
| Supplier notification           | 2-(2-hexyloxyethoxy)ethanol | 112-59-4   | 1-10 |
|                                 | silver                      | 7440-22-4  | 1-10 |

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.

### California Prop. 65

**⚠ WARNING:** Cancer - www.P65Warnings.ca.gov.

### Canada

**Canada inventory** : All components are listed or exempted.

### International regulations

#### Inventory list

**Australia** : All components are listed or exempted.

**China** : All components are listed or exempted.

**Japan** : All components are listed or exempted.

**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.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

|                  |   |
|------------------|---|
| Health           | 1 |
| Flammability     | 1 |
| Physical hazards | 0 |
|                  |   |

### Procedure used to derive the classification

| Classification                  | Justification      |
|---------------------------------|--------------------|
| SERIOUS EYE DAMAGE - Category 1 | Calculation method |

### History

**Date of issue/Date of revision** : 9/20/2023

**Date of previous issue** : 3/11/2023

**Version** : 2.05

**Regulatory Affairs Department**  
enthone.msds@macdermidenthone.com

## Section 16. Other information

### Key to abbreviations

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

### 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.