

# **Apollo Scientific**

Part Number: **OR2633** Version No: **2.2** Safety Data Sheet Chemwatch Hazard Alert Code: 2

Issue Date: **11/07/2023** Print Date: **11/07/2023** S.GHS.GB-NIR.EN

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### **Product Identifier**

| Product name                     | S-TrityI-D-homocysteine, N-FMOC protected       |  |  |  |  |
|----------------------------------|---|--|--|--|--|
| Chemical Name                    | 6-(4-METHOXYTRITYL)-L-LYSINE, N2-FMOC PROTECTED |  |  |  |  |
| Synonyms                         | Not Available                                   |  |  |  |  |
| Other means of<br>identification | Not Available                                   |  |  |  |  |
| CAS number                       | 1007840-62-1*                                   |  |  |  |  |

#### Relevant identified uses of the substance or mixture and uses advised against

| Relevant identified uses | Not Available |
|--------------------------|---------------|
|--------------------------|---------------|

#### Details of the manufacturer or supplier of the safety data sheet

| Registered company name | Apollo Scientific                               | Apollo Scientific Itd  |  |
|-------------------------|---|--|--|
| Address                 | Whitefield Road, Bredbury SK62QR United Kingdom | Whitefield Road, Bredbury Cheshire SK6 2QR United Kingdom (NI) |  |
| Telephone               | 01614060505                                     | +44(0) 161 406 0505  |  |
| Fax                     | 0161 406 0506                                   | Not Available  |  |
| Website                 | http://www.apolloscientific.co.uk/              | apolloscientific.co.uk   |  |
| Email                   | sales@apolloscientific.co.uk                    | sales@apolloscientific.co.uk                                   |  |

#### **Emergency telephone number**

| Association / Organisation        | Not Available |
|-----------------------------------|---------------|
| Emergency telephone<br>numbers    | Not Available |
| Other emergency telephone numbers | Not Available |

#### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

| Classification according to<br>regulation (EC) No<br>1272/2008 [CLP] and<br>amendments <sup>[1]</sup> | H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H315 - Skin Corrosion/Irritation<br>Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2 |
|---|--|
| Legend:   | 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI   |

# Label elements

| Hazard pictogram(s) |         |
|---------------------|---------|
| Signal word         | Warning |

# Hazard statement(s)

| H335 | May cause respiratory irritation. |  |  |
|------|-----------------------------------|--|--|
| H315 | Causes skin irritation.           |  |  |
| H319 | Causes serious eye irritation.    |  |  |

# Precautionary statement(s) Prevention

| P271  | Use only outdoors or in a well-ventilated area. |  |  |
|---|---|--|--|
| P261  | P261 Avoid breathing dust/fumes.                |  |  |
| P280 Wear protective gloves, protective clothing, eye protection and face protection. |   |  |  |
| P264         Wash all exposed external body areas thoroughly after handling.          |   |  |  |

# Precautionary statement(s) Response

| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |  |  |  |  |
|----------------|--|--|--|--|--|
| P312           | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.  |  |  |  |  |
| P337+P313      | f eye irritation persists: Get medical advice/attention.   |  |  |  |  |
| P302+P352      | IF ON SKIN: Wash with plenty of water.   |  |  |  |  |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |  |  |  |  |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |  |  |  |  |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |  |  |  |  |

#### Precautionary statement(s) Storage

| P405      | Store locked up.   |  |  |
|-----------|--|--|--|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |  |  |

#### Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

# **SECTION 3 Composition / information on ingredients**

# Substances

| CAS No        | %[weight] | Name Classification according to regulation (EC) No 1272/2008 [CLP] and amendments |  | SCL /<br>M-Factor |
|---------------|-----------|--|--|-------------------|
| 1007840-62-1* | 100       | S-Trityl-D-homocysteine,<br>N-FMOC protected                                       | Specific Target Organ Toxicity - Single Exposure (Respiratory Tract<br>Irritation) Category 3 , Skin Corrosion/Irritation Category 2, Serious<br>Eye Damage/Eye Irritation Category 2; H335, H315, H319 <sup>[1]</sup> | Not<br>Available  |

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; \* EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

# **Mixtures**

See section above for composition of Substances

# **SECTION 4 First aid measures**

#### Description of first aid measures

Eye Contact

If this product comes in contact with the eyes: • Wash out immediately with fresh running water.

|              | <ul> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
|--------------|--|
| Skin Contact | If skin or hair contact occurs: <ul> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>  |
| Inhalation   | <ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>  |
| Ingestion    | <ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>  |

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 Firefighting measures**

#### **Extinguishing media**

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

#### Special hazards arising from the substrate or mixture

| Fire Incompatibility | None known. |
|----------------------|-------------|
|                      |             |

# Advice for firefighters

| Fire Fighting         | <ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul> |
|-----------------------|--|
| Fire/Explosion Hazard | <ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>May emit corrosive fumes.</li> </ul>  |

#### **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

| <ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing dust and contact with skin and eyes.</li> <li>Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Sweep up, shovel up or</li> <li>Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>Place spilled material in clean, dry, sealable, labelled container.</li> </ul> |   |
|---|---|
| Major Spills  | Moderate hazard.  CAUTION: Advise personnel in area.  Alert Emergency Services and tell them location and nature of hazard. |

| Control personal contact by wearing protective clothing.  |
|---|
| <ul> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> </ul>                        |
| Recover product wherever possible.  |
| • IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other |
| containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal.                            |
| ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.  |
| If contamination of drains or waterways occurs, advise Emergency Services.  |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

# Precautions for safe handling

| Safe handling     | <ul> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul> |
|-------------------|--|
| Other information | <ul> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>For major quantities:</li> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>  |

# Conditions for safe storage, including any incompatibilities

| Suitable container      | <ul> <li>Lined metal can, lined metal pail/ can.</li> <li>Plastic pail.</li> <li>Polyliner drum.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul> |
|-------------------------|--|
| Storage incompatibility | None known   |

# **SECTION 8 Exposure controls / personal protection**

# **Control parameters**

# Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Not Available

#### Emergency Limits

| Ingredient                                   | TEEL-1        | TEEL-2        | TEEL-3        |
|--|---------------|---------------|---------------|
| S-TrityI-D-homocysteine,<br>N-FMOC protected | Not Available | Not Available | Not Available |

Original IDLH

| Ingredient                                   | Original IDLH | Revised IDLH  |
|--|---------------|---------------|
| S-Trityl-D-homocysteine,<br>N-FMOC protected | Not Available | Not Available |

| Occupational Exposure Banding                |  |              |
|--|--|--------------|
| Ingredient                                   | Occupational Exposure Band Rating Occupational Exposure Band Limit   |              |
| S-Trityl-D-homocysteine,<br>N-FMOC protected | E  | ≤ 0.01 mg/m³ |
| Notes:                                       | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health. |              |

# **Exposure controls**

|  | Engineering controls are used to remove a hazard or place<br>engineering controls can be highly effective in protecting w<br>provide this high level of protection.<br>The basic types of engineering controls are:<br>Process controls which involve changing the way a job acti<br>Enclosure and/or isolation of emission source which keeps<br>that strategically "adds" and "removes" air in the work envii<br>designed properly. The design of a ventilation system musi<br>Employers may need to use multiple types of controls to pr<br>Local exhaust ventilation is required where solids are h<br>large, a certain proportion will be powdered by mutual f<br>If in spite of local exhaust an adverse concentration of<br>considered.<br>Such protection might consist of:<br>(a): particle dust respirators, if necessary, combined with a<br>(b): filter respirators with absorption cartridge or canister of<br>(c): fresh-air hoods or masks.<br>Air contaminants generated in the workplace possess vary<br>velocities" of fresh circulating air required to effectively rem | orkers and will typically be indepen-<br>vity or process is done to reduce th<br>a selected hazard "physically" awa<br>ronment. Ventilation can remove or<br>match the particular process and c<br>event employee overexposure.<br>andled as powders or crystals; eve<br>riction.<br>the substance in air could occur, res<br>n absorption cartridge;<br>the right type;<br>ing "escape" velocities which, in tur | dent of worker interactions to<br>e risk.<br>y from the worker and ventilation<br>dilute an air contaminant if<br>chemical or contaminant in use.<br>n when particulates are relatively<br>spiratory protection should be |
|--|--|---|---|
| Appropriate engineering  | Type of Contaminant:   |   | Air Speed:  |
| controls   | direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)   |   | as 1-2.5 m/s (200-500<br>f/min.)  |
|  | grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).   |   | ial 2.5-10 m/s (500-2000<br>f/min.)   |
|  | Within each range the appropriate value depends on:  |   |   |
|  | Lower end of the range   | Upper end of the range  |   |
|  | 1: Room air currents minimal or favourable to capture  | 1: Disturbing room air currents   |   |
|  | 2: Contaminants of low toxicity or of nuisance value only.   | 2: Contaminants of high toxicity  |   |
|  | 3: Intermittent, low production.   | 3: High production, heavy use   |   |
|  | 4: Large hood or large air mass in motion  | 4: Small hood-local control only  |   |
|  | Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction systems are installed or used.  |   |   |
| Individual protection<br>measures, such as<br>personal protective<br>equipment |  |   |   |

Safety glasses with side shields.

Eye and face protection

- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the

|                       | event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].   |  |
|-----------------------|--|--|
| Skin protection       | See Hand protection below  |  |
| Hands/feet protection | The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: - frequency and duration of contact demical resistance of glove material, - glove thickness and - downity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent) When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 20 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended Some glove oplymer types are less affected by movement and this should be taken into account when considering gloves for long-term use Contaminator gloves should be replaced As defined in ASTM F-739-96 in any application, gloves are rated as: - Excellent when breakthrough time > 20 min - 20 min |  |
| Body protection       | See Other protection below   |  |
| Other protection      | <ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>   |  |

# **Respiratory protection**

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 10 x ES                      | P1                   | -                    | PAPR-P1                |
|                                    | Air-line*            | -                    | -                      |
| up to 50 x ES                      | Air-line**           | P2                   | PAPR-P2                |
| up to 100 x ES                     | -                    | P3                   | -                      |
|                                    |                      | Air-line*            | -                      |

| 100+ x ES - Air-line** PAPR-P3 |
|--------------------------------|
|--------------------------------|

\* - Negative pressure demand \*\* - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

• Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

 $\cdot$  Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

# **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

| Appearance                                      | Not Available |  |                |
|---|---------------|--|----------------|
| Physical state                                  | Solid         | Relative density (Water = 1)               | Not Available  |
| Odour   | Not Available | Partition coefficient<br>n-octanol / water | Not Available  |
| Odour threshold                                 | Not Available | Auto-ignition temperature<br>(°C)          | Not Available  |
| pH (as supplied)                                | Not Available | Decomposition<br>temperature (°C)          | Not Available  |
| Melting point / freezing<br>point (°C)          | Not Available | Viscosity (cSt)                            | Not Available  |
| Initial boiling point and<br>boiling range (°C) | Not Available | Molecular weight (g/mol)                   | Not Available  |
| Flash point (°C)                                | Not Available | Taste                                      | Not Available  |
| Evaporation rate                                | Not Available | Explosive properties                       | Not Available  |
| Flammability                                    | Not Available | Oxidising properties                       | Not Available  |
| Upper Explosive Limit (%)                       | Not Available | Surface Tension (dyn/cm<br>or mN/m)        | Not Applicable |
| Lower Explosive Limit (%)                       | Not Available | Volatile Component (%vol)                  | Not Available  |
| Vapour pressure (kPa)                           | Not Available | Gas group                                  | Not Available  |
| Solubility in water                             | Not Available | pH as a solution (1%)                      | Not Available  |
| Vapour density (Air = 1)                        | Not Available | VOC g/L                                    | Not Available  |

#### **SECTION 10 Stability and reactivity**

| Reactivity                         | See section 7   |
|------------------------------------|---|
| Chemical stability                 | Product is considered stable and hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7   |
| Conditions to avoid                | See section 7   |
| Incompatible materials             | See section 7   |

Hazardous decomposition products

See section 5

# **SECTION 11 Toxicological information**

#### Information on toxicological effects

| Inhaled      | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. |
|--------------|---|
| Ingestion    | The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.  |
| Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.             |
| Eye          | This material can cause eye irritation and damage in some persons.  |
| Chronic      | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.  |

| Legend: | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. |
|---------|--|
|         | Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances               |

| Acute Toxicity                       | × | Carcinogenicity          | × |
|--------------------------------------|---|--------------------------|---|
| Skin Irritation/Corrosion            | ¥ | Reproductivity           | × |
| Serious Eye<br>Damage/Irritation     | × | STOT - Single Exposure   | * |
| Respiratory or Skin<br>sensitisation | × | STOT - Repeated Exposure | × |
| Mutagenicity                         | × | Aspiration Hazard        | × |

.egend: X − Data either not available or does not
✓ − Data available to make classification

# **SECTION 12 Ecological information**

#### Toxicity

| Legend: | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity |
|---------|---|
|         | 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -                 |
|         | Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data  |

# Persistence and degradability

| Ingredient | Persistence: Water/Soil               | Persistence: Air                      |
|------------|---------------------------------------|---------------------------------------|
|            | No Data available for all ingredients | No Data available for all ingredients |

# **Bioaccumulative potential**

| Ingredient | Bioaccumulation                       |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

# Mobility in soil

| Ingredient | Mobility                              |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

. . .

#### S-Trityl-D-homocysteine, N-FMOC protected

| Product / Packaging<br>disposal | <ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Bury residue in an authorised landfill.</li> </ul> |
|---------------------------------|--|
|                                 | <ul> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>   |

# Marine Pollutant NO

# Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

# Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name                                 | Group         |
|--|---------------|
| S-Trityl-D-homocysteine,<br>N-FMOC protected | Not Available |

#### Transport in bulk in accordance with the IGC Code

| Product name                                 | Ship Type     |
|--|---------------|
| S-Trityl-D-homocysteine,<br>N-FMOC protected | Not Available |

# **SECTION 15 Regulatory information**

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

S-Trityl-D-homocysteine, N-FMOC protected is found on the following regulatory lists

Not Applicable

#### **National Inventory Status**

| National Inventory                                 | Status   |  |
|--|--|--|
| Australia - AIIC / Australia<br>Non-Industrial Use | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| Canada - DSL                                       | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| Canada - NDSL                                      | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| China - IECSC                                      | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| Europe - EINEC / ELINCS /<br>NLP                   | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| Japan - ENCS                                       | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| Korea - KECI                                       | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| New Zealand - NZIoC                                | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| Philippines - PICCS                                | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| USA - TSCA   | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| Taiwan - TCSI                                      | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| Mexico - INSQ                                      | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| Vietnam - NCI                                      | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |
| Russia - FBEPH                                     | No (S-Trityl-D-homocysteine, N-FMOC protected) |  |

| National Inventory | Status   |
|--------------------|--|
|                    | Yes = All CAS declared ingredients are on the inventory  |
| Legend:            | No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require |
|                    | registration.  |

# **SECTION 16 Other information**

| Revision Date | 11/07/2023 |
|---------------|------------|
| Initial Date  | 11/07/2023 |

#### **SDS Version Summary**

| Version | Date of<br>Update | Sections Updated  |
|---------|-------------------|---|
| 1.2     | 11/07/2023        | CAS Number, Hazards identification - Classification, Composition / information on ingredients - Ingredients,<br>Korean MSDS Number, Identification of the substance / mixture and of the company / undertaking - Supplier<br>Information, Identification of the substance / mixture and of the company / undertaking - Synonyms |

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

PC - TWA: Permissible Concentration-Time Weighted Average

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### Definitions and abbreviations

PC - STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals **DSL: Domestic Substances List** NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

| Classification according to<br>regulation (EC) No<br>1272/2008 [CLP] and<br>amendments                    | Classification Procedure |  |
|---|--------------------------|--|
| Specific Target Organ<br>Toxicity - Single Exposure<br>(Respiratory Tract Irritation)<br>Category 3, H335 | Expert judgement         |  |
| Skin Corrosion/Irritation<br>Category 2, H315   | Expert judgement         |  |
| Serious Eye Damage/Eye<br>Irritation Category 2, H319   | Expert judgement         |  |

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