

# Trihexylsilane Apollo Scientific

Part Number: **OR72476** Version No: **1.1** Safety Data Sheet

#### Chemwatch Hazard Alert Code: 2

Issue Date: 28/07/2023 Print Date: 28/07/2023 S.GHS.GB-NIR.EN

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

#### **Product Identifier**

| Product name                     | Trihexylsilane |
|----------------------------------|----------------|
| Chemical Name                    | trihexylsilane |
| Synonyms                         | Not Available  |
| Chemical formula                 | C18H40Si       |
| Other means of<br>identification | Not Available  |
| CAS number                       | 2929-52-4*     |

#### 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 SK6 2QR United Kingdom (NI) |  |
| Telephone         01614060505           Fax         0161 406 0506 |   | +44(0) 161 406 0505<br>Not Available                  |  |
|   |   |   |  |
| Email   | sales@apolloscientific.co.uk                    | sales@apolloscientific.co.uk                          |  |

# Emergency telephone number

| Association / Organisation        | Not Available |
|-----------------------------------|---------------|
| Emergency telephone 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 [1] | H302 - Acute Toxicity (Oral) Category 4, H312 - Acute Toxicity (Dermal) Category 4, H315 - Skin Corrosion/Irritation Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2, H332 - Acute Toxicity (Inhalation) Category 4, H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3 |
|--|--|
| Legend:  | 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI   |

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#### Label elements





Signal word

Warning

#### Hazard statement(s)

| H302 | H302 Harmful if swallowed.         |  |  |  |  |  |
|------|------------------------------------|--|--|--|--|--|
| H312 | H312 Harmful in contact with skin. |  |  |  |  |  |
| H315 | 15 Causes skin irritation.         |  |  |  |  |  |
| H319 | Causes serious eye irritation.     |  |  |  |  |  |
| H332 | Harmful if inhaled.                |  |  |  |  |  |
| H335 | May cause respiratory irritation.  |  |  |  |  |  |

#### Precautionary statement(s) Prevention

| P271  | Use only outdoors or in a well-ventilated area. |  |  |
|---|---|--|--|
| P261 Avoid breathing mist/vapours/spray.  |   |  |  |
| P264 Wash all exposed external body areas thoroughly after handling.                  |   |  |  |
| P270 Do not eat, drink or smoke when using this product.                              |   |  |  |
| P280 Wear protective gloves, protective clothing, eye protection and face protection. |   |  |  |

#### 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. Continu P337+P313 If eye irritation persists: Get medical advice/attention.  P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell. |  |  |   |  |  |  |
|--|--|--|---|--|--|--|
|  |  |  | P302+P352   | P302+P352 IF ON SKIN: Wash with plenty of water. |  |  |
|  |  |  | P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P330 Rinse mouth.  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. |           | Store locked up.   |  |
|-----------------------|-----------|--|--|
|                       | P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |  |

# Precautionary statement(s) Disposal

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 %[v | [weight] | Name | Classification according to regulation (EC) No 1272/2008 [CLP] and amendments | SCL /<br>M-Factor |
|------------|----------|------|---|-------------------|
|------------|----------|------|---|-------------------|

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**

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# Eye Contact If this product comes in contact with the eyes: Wash out immediately with fresh running water. 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. Inhalation If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

#### Indication of any immediate medical attention and special treatment needed

Immediately give a glass of water.

Treat symptomatically.

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

Ingestion

**Description of first aid 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    | Patibility 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

| Minor Spills | <ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul> |
|--------------|--|
| Major Spills | Moderate hazard.  Clear area of personnel and move upwind.   |

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- ▶ Prevent, by any means available, spillage from entering drains or water course.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- ▶ Collect recoverable product into labelled containers for recycling.
- ▶ Neutralise/decontaminate residue (see Section 13 for specific agent).
- ► Collect solid residues and seal in labelled drums for disposal.
- ▶ Wash area and prevent runoff into drains.
- After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
- 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

- ▶ Avoid all personal contact, including inhalation.
- ▶ Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.
- Avoid contact with moisture.
- Avoid contact with incompatible materials.
- ► When handling, **DO NOT** eat, drink or smoke.
- ▶ Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
  - Always wash hands with soap and water after handling.
  - ▶ Work clothes should be laundered separately. Launder contaminated clothing before re-use.
  - Use good occupational work practice.
  - ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.
  - Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Other information

Safe handling

#### Conditions for safe storage, including any incompatibilities

# Suitable container

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

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        |
|----------------|---------------|---------------|---------------|
| Trihexylsilane | Not Available | Not Available | Not Available |

| Ingredient     | Original IDLH | Revised IDLH  |
|----------------|---------------|---------------|
| Trihexylsilane | Not Available | Not Available |

#### **Exposure controls**

# Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation

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that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

| Type of Contaminant:  | Air Speed:                      |
|---|---------------------------------|
| solvent, vapours, degreasing etc., evaporating from tank (in still air).  | 0.25-0.5 m/s<br>(50-100 f/min)  |
| aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) | 0.5-1 m/s (100-200 f/min.)      |
| direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)  | 1-2.5 m/s (200-500 f/min.)      |
| grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).  | 2.5-10 m/s<br>(500-2000 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 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Individual protection measures, such as personal protective equipment









## Safety glasses with side shields.

- 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].

# Eye and face protection

#### Skin protection

#### See Hand protection below

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to 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:

#### Hands/feet protection

- · frequency and duration of contact,
- · chemical resistance of glove material,
- · glove thickness and
- dexterity

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 240 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.

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> · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.

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· Contaminated gloves should be replaced.

As defined in ASTM F-739-96 in any application, gloves are rated as:

- · Excellent when breakthrough time > 480 min
- · Good when breakthrough time > 20 min
- · Fair when breakthrough time < 20 min
- · Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- · Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- · Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

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.

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

**Body protection** See Other protection below

Other protection

- Overalls.
- P.V.C apron.
- ► Barrier cream.
- Skin cleansing cream.
- ▶ Eye wash unit.

#### **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

| Appearance                                   | Not Available |   |               |
|--|---------------|---|---------------|
|  |               |   |               |
| Physical state                               | Liquid        | Relative density (Water = 1)            | Not Available |
| Odour  | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold                              | Not Available | Auto-ignition temperature (°C)          | Not Available |
| pH (as supplied)                             | Not Available | Decomposition temperature (°C)          | Not Available |
| Melting point / freezing point (°C)          | Not Available | Viscosity (cSt)                         | Not Available |
| Initial boiling point and boiling range (°C) | 161.0         | 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 or mN/m)        | Not Available |
| 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 |

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# **SECTION 10 Stability and reactivity**

| Reactivity                         | See section 7  |
|------------------------------------|--|
| Chemical stability                 | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| 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

| illiorillation on toxicologi | icai ellects  |  |
|------------------------------|---|--|
| Inhaled                      | The material is not thought to produce adverse health effects or i using animal models). Nevertheless, good hygiene practice requi measures be used in an occupational setting. | rritation of the respiratory tract (as classified by EC Directives ires that exposure be kept to a minimum and that suitable control |
| Ingestion                    | The material has <b>NOT</b> been classified by EC Directives or other of the lack of corroborating animal or human evidence.  | classification systems as "harmful by ingestion". This is because  |
| Skin Contact                 | The material is not thought to produce adverse health effects or susing animal models). Nevertheless, good hygiene practice requibe used in an occupational setting.            | •  |
| Eye                          | This material can cause eye irritation and damage in some perso   | ons.   |
| Chronic                      | Long-term exposure to the product is not thought to produce chrousing animal models); nevertheless exposure by all routes should  | · · · · · · · · · · · · · · · · · · ·  |
|                              |   |  |
| Trihexylsilane               | TOXICITY  | IRRITATION   |
| Trinexyishane                | Not Available   | Not Available  |
| Legend:                      | Value obtained from Europe ECHA Registered Substances - A     Unless otherwise specified data extracted from RTECS - Registe  |  |

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

Legend:

X - Data either not available or does not fill the criteria for classification

✓ – Data available to make classification

# **SECTION 12 Ecological information**

# **Toxicity**

|                | Endpoint         | Test Duration (hr)   | Species                                  | Value            | Source           |
|----------------|------------------|--|--|------------------|------------------|
| Trihexylsilane | Not<br>Available | Not Available  | Not Available                            | Not<br>Available | Not<br>Available |
| Legend:        | 4. US EPA, E     | n 1. IUCLID Toxicity Data 2. Europe ECHA R<br>cotox database - Aquatic Toxicity Data 5. EC<br>tion Data 7. METI (Japan) - Bioconcentration | ETOC Aquatic Hazard Assessment Data 6. I |                  | -                |

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 |

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- ► Reuse
- Recycling
- Disposal (if all else fails)

#### **Product / Packaging** disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- ► Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

#### **SECTION 14 Transport information**

#### **Labels Required**

**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

# Transport in bulk in accordance with the IGC Code

| Product name   | Ship Type  |  |
|----------------|------------|--|
| FIOUUCI Haille | Jilip Type |  |

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#### **SECTION 15 Regulatory information**

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

#### **National Inventory Status**

| National Inventory                                 | Status   |  |
|--|--|--|
| Australia - AIIC / Australia<br>Non-Industrial Use | Not Available  |  |
| Canada - DSL                                       | Not Available  |  |
| Canada - NDSL                                      | Not Available  |  |
| China - IECSC                                      | Not Available  |  |
| Europe - EINEC / ELINCS /<br>NLP                   | Not Available  |  |
| Japan - ENCS                                       | Not Available  |  |
| Korea - KECI                                       | Not Available  |  |
| New Zealand - NZIoC                                | Not Available  |  |
| Philippines - PICCS                                | Not Available  |  |
| USA - TSCA   | Not Available  |  |
| Taiwan - TCSI                                      | Not Available  |  |
| Mexico - INSQ                                      | Not Available  |  |
| Vietnam - NCI                                      | Not Available  |  |
| Russia - FBEPH                                     | Not Available  |  |
| Legend:  | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |  |

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#### **SECTION 16 Other information**

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|---------------|------------|
| Initial Date  | 28/07/2023 |

#### 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

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

PC - TWA: Permissible Concentration-Time Weighted Average

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 and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

| Classification according to regulation (EC) No 1272/2008 [CLP] and amendments                              | Classification Procedure |
|--|--------------------------|
| Acute Toxicity (Oral)<br>Category 4, H302  | Expert judgement         |
| Acute Toxicity (Dermal) Category 4, H312   | Expert judgement         |
| Skin Corrosion/Irritation<br>Category 2, H315  | Expert judgement         |
| Serious Eye Damage/Eye<br>Irritation Category 2, H319  | Expert judgement         |
| Acute Toxicity (Inhalation) Category 4, H332   | Expert judgement         |
| Specific Target Organ<br>Toxicity - Single Exposure<br>(Respiratory Tract Irritation)<br>Category 3 , H335 | Expert judgement         |

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