

Apollo Scientific

Part Number: **PC7383** Version No: **1.1** Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) Chemwatch Hazard Alert Code: 2

Issue Date: **17/05/2022** Print Date: **01/08/2023** S.REACH.GBR.EN

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

1.1. Product Identifier

| Product name | Bromo-4-fluorobenzylamine hydrochloride | |
|----------------------------------|---|--|
| Chemical Name | omo-4-?uorobenzylamine, HCl | |
| Synonyms | lable | |
| Chemical formula | Not Available | |
| Other means of identification | Not Available | |
| CAS number | 289038-14-8* | |

1.2. Relevant identified uses of the substance or mixture and uses advised against

| Relevant identified uses | Not Available |
|--------------------------|--|
| Uses advised against | No specific uses advised against are identified. |

1.3. Details of the manufacturer or supplier of the safety data sheet

| Registered company name | Apollo Scientific | |
|-------------------------|---|--|
| Address | itefield Road, Bredbury SK62QR United Kingdom | |
| Telephone | 614060505 | |
| Fax | 0161 406 0506 | |
| Website | http://www.apolloscientific.co.uk/ | |
| Email | sales@apolloscientific.co.uk | |

1.4. Emergency telephone number

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

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

| Classification according to regulation (EC) No 1272/2008 [CLP] and amendments ^[1] | H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H302 - Acute Toxicity (Oral) Category 4, H315 - Skin Corrosion/Irritation 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 |

2.2. Label elements

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

Hazard statement(s)

| H335 | May cause respiratory irritation. |
|------|-----------------------------------|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

| P271 | Use only outdoors or in a well-ventilated area. |
|------|--|
| P261 | Avoid breathing dust/fumes. |
| 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. Continue rinsing. |
|----------------|--|
| 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 | 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. |
|-----------|--|
| 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.

2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 Composition / information on ingredients

3.1.Substances

| 1. CAS No 2.EC No 3.Index No 4.REACH No | %[weight] | Name | Classification according to regulation (EC) No 1272/2008 [CLP] and amendments | SCL / M-Factor | Nanoform Particle Characteristics |
|--|-----------|--|---|-------------------|--------------------------------------|
| Not Available | 100 | 2-Bromo- 4-fluorobenzylamine hydrochloride | Not Applicable | Not Applicable | Not 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

3.2.Mixtures

See 'Information on ingredients' in section 3.1

SECTION 4 First aid measures

4.1. Description of first aid measures

| 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. |
|--------------|---|
| Skin Contact | 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. |
| Ingestion | Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. |

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substrate or mixture

| Fire Incompatibility | lone known. |
|----------------------|-------------|
|----------------------|-------------|

5.3. Advice for firefighters

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

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

| Minor Spills | Clean up all spills immediately. Avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves, safety glasses and dust respirator. Use dry clean up procedures and avoid generating dust. Sweep up, shovel up or Vacuum up (consider explosion-proof machines designed to be grounded during storage and use). Place spilled material in clean, dry, sealable, labelled container. |
|--------------|---|
| 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. Prevent, by any means available, spillage from entering drains or water courses. 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. |

6.4. Reference to other sections

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

SECTION 7 Handling and storage

7.1. Precautions for safe handling

| Safe handling | Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. 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. |
|----------------------------------|---|
| Fire and explosion protection | See section 5 |
| Other information | Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. For major quantities: Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams). Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities. |

7.2. Conditions for safe storage, including any incompatibilities

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

| Hazard categories in accordance with Regulation (EC) No 1272/2008 | Not Available |
|---|---------------|
| Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of | Not Available |

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

| Ingredient | DNELs Exposure Pattern Worker | PNECs Compartment |
|---------------|----------------------------------|----------------------|
| Not Available | Not Available | Not Available |

* Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Not Available |

Not Applicable

Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | | TEEL-3 |
|--|---------------|---------------|---------------|---------------|
| 2-Bromo- 4-fluorobenzylamine hydrochloride | Not Available | Not Available | | Not Available |
| Ingredient | Original IDLH | | Revised IDLH | |
| 2-Bromo- 4-fluorobenzylamine hydrochloride | Not Available | | Not Available | |

8.2. Exposure controls

| 8.2.1. Appropriate engineering controls | Engineering controls are used to remove a hazard or place a barrier between the worker an engineering controls can be highly effective in protecting workers and will typically be indep 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 Enclosure and/or isolation of emission source which keeps a selected hazard "physically" at that strategically "adds" and "removes" air in the work environment. Ventilation can remove designed properly. The design of a ventilation system must match the particular process and Employers may need to use multiple types of controls to prevent employee overexposure. Local exhaust ventilation is required where solids are handled as powders or crystals; e large, a certain proportion will be powdered by mutual friction. If in spite of local exhaust an adverse concentration of the substance in air could occur, considered. Such protection might consist of: | endent of worker interactions to the risk. way from the worker and ventilatio or dilute an air contaminant if d chemical or contaminant in use. ven when particulates are relativel |
|--|---|--|
| | (a): particle dust respirators, if necessary, combined with an absorption cartridge; | |
| | (b): filter respirators with absorption cartridge or canister of the right type;(c): fresh-air hoods or masks. | |
| | Air contaminants generated in the workplace possess varying "escape" velocities which, in velocities" of fresh circulating air required to effectively remove the contaminant. | turn, determine the "capture |
| | Type of Contaminant: | Air Speed: |

| | direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion) | conveyer loading, crusher dusts, gas | 1-2.5 m/s (200-500 f/min.) |
|---|--|---|--|
| | grinding, abrasive blasting, tumbling, high speed wheel gen velocity into zone of very high rapid air motion). | nerated dusts (released at high initial | 2.5-10 m/s (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 generally decreases with the square of distance from the ext extraction point should be adjusted, accordingly, after referer extraction fan, for example, should be a minimum of 4-10 m/ distant from the extraction point. Other mechanical considera apparatus, make it essential that theoretical air velocities are installed or used. | raction point (in simple cases). Therefore nee to distance from the contaminating so s (800-2000 f/min) for extraction of crushe ations, producing performance deficits with | the air speed at the urce. The air velocity at the er dusts generated 2 metres hin the extraction |
| 8.2.2. Individual protection measures, such as personal protective equipment | | 3 | |
| Eye and face protection | Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national e Contact lenses may pose a special hazard; soft contact l document, describing the wearing of lenses or restriction include a review of lens absorption and adsorption for the Medical and first-aid personnel should be trained in their event of chemical exposure, begin eye irrigation immedia be removed at the first signs of eye redness or irritation - have washed hands thoroughly. [CDC NIOSH Current In- | enses may absorb and concentrate irritan s on use, should be created for each work e class of chemicals in use and an accour removal and suitable equipment should b ttely and remove contact lens as soon as lens should be removed in a clean enviro | xplace or task. This should tt of injury experience. e readily available. In the practicable. Lens should |
| 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 to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove materic 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 b 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, han 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, | | After using gloves, hands After using gloves, hands res include: I equivalent). her (breakthrough time nded. greater than 60 minutes en considering gloves for a specific chemical, as the herefore, glove selection del. Therefore, the |

| | 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. |
| | Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, |
| | where abrasive particles are not present. |
| | ▶ polychloroprene. |
| | ▶ nitrile rubber. |
| | ▶ butyl rubber. |
| | ► fluorocaoutchouc. |
| | ▶ polyvinyl chloride. |
| | Gloves should be examined for wear and/ or degradation constantly. |
| Body protection | See Other protection below |
| | ► Overalls. |
| | ▶ P.V.C apron. |
| Other protection | ▶ Barrier cream. |
| | ▶ Skin cleansing cream. |
| | ► Eye wash unit. |

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.

 \cdot Try to avoid creating dust conditions.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Appearance | Not Available | | |
|------------------|---------------|--|---------------|
| | | | |
| Physical state | Solid | 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) | 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 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 |
| Nanoform Solubility | Not Available | Nanoform Particle Characteristics | Not Available |
| Particle Size | Not Available | | |

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

| 10.1.Reactivity | See section 7.2 | |
|---|---|--|
| 10.2. Chemical stability | Product is considered stable and hazardous polymerisation will not occur. | |
| 10.3. Possibility of hazardous reactions | See section 7.2 | |
| 10.4. Conditions to avoid | See section 7.2 | |
| 10.5. Incompatible materials | See section 7.2 | |
| 10.6. Hazardous decomposition products | See section 5.3 | |

SECTION 11 Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on toxicological effects

| Legend: | 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 | | |
|---------------------------------|---|---------------|--|
| hydrochloride | Not Available | Not Available | |
| 2-Bromo- 4-fluorobenzylamine | ΤΟΧΙΟΙΤΥ | IRRITATION | |
| | | | |
| 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. | | |
| Eye | This material can cause eye irritation and damage in some persons. | | |
| 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. | | |
| Ingestion | The material has NOT 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. | | |
| 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. | | |

| Acute Toxicity | ¥ | Carcinogenicity | × |
|----------------------------------|---|------------------------|---|
| Skin Irritation/Corrosion | × | Reproductivity | × |
| Serious Eye Damage/Irritation | * | STOT - Single Exposure | * |

| 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

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

| 2-Bromo- | Endpoint | Test Duration (hr) | Species | Value | Source |
|--------------------------------------|--|--------------------|---------------|------------------|------------------|
| 4-fluorobenzylamine hydrochloride | Not Available | Not Available | Not Available | Not Available | Not Available |
| 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 | | | | |

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

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

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

| | Р | В | т |
|----------------------------|---------------|---------------|---------------|
| Relevant available data | Not Available | Not Available | Not Available |
| PBT | × | × | × |
| vPvB | × | × | × |
| PBT Criteria fulfilled? No | | | |
| vPvB | | | No |

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

| Product / Packaging disposal | Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill. |
|---------------------------------|--|
| Waste treatment options | Not Available |
| Sewage disposal options | Not Available |

SECTION 14 Transport information

Labels Required

| Marine Pollutant | NO |
|------------------|----------------|
| HAZCHEM | Not Applicable |

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

| 14.1. UN number or ID number | Not Applicable | | | | |
|---------------------------------------|--------------------------|----------------|----------------|--|--|
| 14.2. UN proper shipping name | Not Applicable | Not Applicable | | | |
| 14.3. Transport hazard class(es) | Class Subsidiary risk | Not Applicab | | | |
| 14.4. Packing group | Not Applicable | | | | |
| 14.5. Environmental hazard | Not Applicable | | | | |
| | Hazard identificati | ion (Kemler) | Not Applicable | | |
| | Classification code | | Not Applicable | | |
| 14.6. Special precautions for user | Hazard Label | | Not Applicable | | |
| | Special provisions | | Not Applicable | | |
| | Limited quantity | | Not Applicable | | |
| | Tunnel Restriction Code | | Not Applicable | | |

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

| 14.1. UN number | Not Applicable | | | | |
|------------------------------------|--|---------------------------------------|----------------|--|--|
| 14.2. UN proper shipping name | Not Applicable | | | | |
| 14.3. Transport hazard class(es) | ICAO/IATA Class ICAO / IATA Subrisk | Not Applicable | | | |
| | ERG Code Not Applicable | | | | |
| 14.4. Packing group | Not Applicable | Not Applicable | | | |
| 14.5. Environmental hazard | Not Applicable | | | | |
| 14.6. Special precautions for user | Special provisions | | Not Applicable | | |
| | Cargo Only Packing Ir | nstructions | Not Applicable | | |
| | Cargo Only Maximum | Qty / Pack | Not Applicable | | |
| | Passenger and Cargo | Packing Instructions | Not Applicable | | |
| | Passenger and Cargo | Maximum Qty / Pack | Not Applicable | | |
| | Passenger and Cargo | Limited Quantity Packing Instructions | Not Applicable | | |
| | Passenger and Cargo | Limited Maximum Qty / Pack | Not Applicable | | |

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

| 14.1. UN number | Not Applicable |
|-----------------|----------------|

| 14.2. UN proper shipping name | Not Applicable | | |
|------------------------------------|---|----------------|--|
| 14.3. Transport hazard class(es) | IMDG Class Not Applicable IMDG Subrisk Not Applicable | | |
| 14.4. Packing group | Not Applicable | | |
| 14.5. Environmental hazard | Not Applicable | | |
| 14.6. Special precautions for user | EMS Number | Not Applicable | |
| | Special provisions | Not Applicable | |
| | Limited Quantities | Not Applicable | |

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

| Not Applicable | | | |
|-------------------------------|--|--|--|
| Not Applicable | | | |
| Not Applicable Not Applicable | | | |
| Not Applicable | | | |
| Not Applicable | | | |
| Classification code | Not Applicable | | |
| Special provisions | Not Applicable | | |
| Limited quantity | Not Applicable | | |
| Equipment required | Not Applicable | | |
| Fire cones number | Not Applicable | | |
| | Not Applicable Not Not Applicable Not Not Applicable Classification code Special provisions Limited quantity Equipment required Equipment required | | |

14.7. Maritime transport in bulk according to IMO instruments

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

Not Applicable

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

| Product name | Group |
|--------------|-------|
| | |

14.7.3. Transport in bulk in accordance with the IGC Code

Product name Ship Type

SECTION 15 Regulatory information

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

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

ECHA SUMMARY

Not Applicable

National Inventory Status

National Inventory

Status

| National Inventory | Status |
|--|--|
| Australia - AIIC / Australia Non-Industrial Use | Not Available |
| Canada - DSL | Not Available |
| Canada - NDSL | Not Available |
| China - IECSC | Not Available |
| Europe - EINEC / ELINCS / 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. |

SECTION 16 Other information

| Revision Date | 17/05/2022 |
|---------------|------------|
| Initial Date | 17/05/2022 |

Full text Risk and Hazard codes

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

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