

Apollo Scientific

Part Number: **PC56104** Version No: **1.2** Safety Data Sheet Chemwatch Hazard Alert Code: 2

Issue Date: 08/06/2023 Print Date: 08/06/2023 S.GHS.GB-NIR.EN

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

Product Identifier

| Product name | 5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol | | |
|----------------------------------|---|--|--|
| Chemical Name | -BROMO-3-FLUORO-2-(TRIFLUOROMETHOXY)PHENOL | | |
| Synonyms | Not Available | | |
| Other means of identification | Not Available | | |
| CAS number | 1804845-33-7* | | |

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

| Relevant identified uses | Not Available |
|--------------------------|---------------|
| 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 Not Available SK6 2QR United Kingdom (N | |
| 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 numbers | Not Available |
| Other emergency telephone numbers | Not Available |

SECTION 2 Hazards identification

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, 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 |

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 | Avoid breathing mist/vapours/spray. | |
| 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 | 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 / M-Factor |
|---------------|-----------|---|---|-------------------|
| 1804845-33-7* | 100 | 5-Bromo-3-fluoro- 2-(trifluoromethoxy)phenol | Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3 , Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2; H335, H315, H319 ^[1] | 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

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. 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. |

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 | 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

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 | Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal. |
|--------------|--|
| 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

| 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 | |

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 Light sensitive Store under argon |

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 |
|---|---------------|---------------|---------------|
| 5-Bromo-3-fluoro- 2-(trifluoromethoxy)phenol | Not Available | Not Available | Not Available |
| | | | |

| Ingredient | Original IDLH | Revised IDLH |
|---|---------------|---------------|
| 5-Bromo-3-fluoro- 2-(trifluoromethoxy)phenol | Not Available | Not Available |

Occupational Exposure Banding

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|---|--|----------------------------------|
| 5-Bromo-3-fluoro- 2-(trifluoromethoxy)phenol | E | ≤ 0.1 ppm |
| 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 engineering controls can be highly effective in protecting w provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job acti Enclosure and/or isolation of emission source which keeps that strategically "adds" and "removes" air in the work envit designed properly. The design of a ventilation system must Employers may need to use multiple types of controls to pr General exhaust is adequate under normal operating cond circumstances. If risk of overexposure exists, wear approve Provide adequate ventilation in warehouse or closed storag varying "escape" velocities which, in turn, determine the "c the contaminant. | orkers and will typically be independent of worker wity or process is done to reduce the risk. a selected hazard "physically" away from the worker ronment. Ventilation can remove or dilute an air of the match the particular process and chemical or con- revent employee overexposure. itions. Local exhaust ventilation may be required and respirator. Correct fit is essential to obtain ad- ge areas. Air contaminants generated in the work | er interactions to prker and ventilation contaminant if ontaminant in use. in specific equate protection. cplace possess | |
|--|---|--|--|--|
| | Type of Contaminant: | | Air Speed: | |
| | solvent, vapours, degreasing etc., evaporating from tank | (in still air). | 0.25-0.5 m/s (50-100 f/min) | |
| Appropriate engineering | aerosols, fumes from pouring operations, intermittent con welding, spray drift, plating acid fumes, pickling (released | | 0.5-1 m/s (100-200 f/min.) | |
| controls | direct spray, spray painting in shallow booths, drum filling, (active generation into zone of rapid air motion) | , conveyer loading, crusher dusts, gas discharge | 1-2.5 m/s (200-500 f/min.) | |
| | grinding, abrasive blasting, tumbling, high speed wheel ge into zone of very high rapid air motion). | enerated dusts (released at high initial velocity | 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. | aminants 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 | | | | |
| Eye and face protection | Safety glasses with side shields. Chemical goggles. 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], [AS/NZS 1336 or national equivalent] | | | |
| 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 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, | | | |

| | 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 2161.1.0.1 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 2161.1.0.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. 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 that dive 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 model. 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 mutarturer, the glove type and the glove model. Therefore, the manufacturers technical dat should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity bing conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (up to 3 mm or more) may be required wh |
|------------------|---|
| 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) | 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 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 |

SECTION 10 Stability and reactivity

| Reactivity | See section 7 |
|-------------------------------------|--|
| Chemical stability | Unstable in the presence of incompatible materials. Product is considered stable. 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 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. | |
| 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 | ronic 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 mar | |
|--|--|
| | Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |

| 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 entre not available of does not nil the chiefla for classification
 — Data available to make classification

SECTION 12 Ecological information

Toxicity

| Legend: | E |
|---------|---|
| | 4 |

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 |

SECTION 13 Disposal considerations

| Naste treatment method Product / Packaging disposal | 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) 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 |
|---|--|
| | In all cases disposal to sever 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

| I | 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

| Product name | Group |
|---|---------------|
| 5-Bromo-3-fluoro- 2-(trifluoromethoxy)phenol | Not Available |

Transport in bulk in accordance with the IGC Code

Product nameShip Type5-Bromo-3-fluoro-
2-(trifluoromethoxy)phenolNot Available

SECTION 15 Regulatory information

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

5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol is found on the following regulatory lists

Not Applicable

National Inventory Status

| National Inventory | Status | |
|--|--|--|
| Australia - AIIC / Australia Non-Industrial Use | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| Canada - DSL | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| Canada - NDSL | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| China - IECSC | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| Europe - EINEC / ELINCS / NLP | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| Japan - ENCS | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| Korea - KECI | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| New Zealand - NZIoC | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| Philippines - PICCS | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| USA - TSCA | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| Taiwan - TCSI | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| Mexico - INSQ | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| Vietnam - NCI | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| Russia - FBEPH | No (5-Bromo-3-fluoro-2-(trifluoromethoxy)phenol) | |
| 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 | 08/06/2023 |
|---------------|------------|
| Initial Date | 09/06/2023 |

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|-------------------|---|
| 0.2 | 08/06/2023 | Hazards identification - Classification, Composition / information on ingredients - Ingredients, Identification of the substance / mixture and of the company / undertaking - Supplier 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

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

engineering controls must be considered.

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 | |
|---|--------------------------|--|
| Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H335 | Expert judgement | |
| Skin Corrosion/Irritation Category 2, H315 | Expert judgement | |
| Serious Eye Damage/Eye Irritation Category 2, H319 | Expert judgement | |

Powered by AuthorITe, from Chemwatch.