

4-Methyl-2-nitrobenzoic acid **Apollo Scientific**

Part Number: OR30706 Version No: 2.2 Safety Data Sheet

Chemwatch Hazard Alert Code: 2

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

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

Product Identifier

| Product name | 4-Methyl-2-nitrobenzoic acid |
|----------------------------------|------------------------------|
| Chemical Name | 4-Methyl-2-nitrobenzoic acid |
| Synonyms | Not Available |
| Chemical formula | C8H7NO4 |
| Other means of identification | Not Available |
| CAS number | 27329-27-7* |

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

Relevant identified uses

Not Available

Details of the manufacturer or supplier of the safety data sheet

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

Emergency telephone number

| Association / Organisation | Not Available |
|-----------------------------------|---------------|
| Emergency telephone 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]

H302 - Acute Toxicity (Oral) Category 4, H317 - Sensitisation (Skin) Category 1

| 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)

| H302 | Harmful if swallowed. |
|------|--------------------------------------|
| H317 | May cause an allergic skin reaction. |

Precautionary statement(s) Prevention

| P280 | Wear protective gloves and protective clothing. |
|------|--|
| 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. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |

Precautionary statement(s) Response

| P302+P352 | IF ON SKIN: Wash with plenty of water. |
|-----------|---|
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell. |
| P330 | Rinse mouth. |

Precautionary statement(s) Storage

Not Applicable

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 |
|-------------|-----------|---------------------------------|---|-------------------|
| 27329-27-7* | 100 | 4-Methyl-2-nitrobenzoic acid | Acute Toxicity (Oral) Category 4, Sensitisation (Skin) Category 1; H302, H317 $^{\left[1\right]}$ | 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 eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. | |

| Skin Contact | If skin contact occurs: Immediately remove all contaminated clothing, including footwear. 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 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.

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. 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. |
|-------------------|---|
| 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. |

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 |

SECTION 8 Exposure controls / personal protection

Control parameters

| Occupational Exposure Limit | s (OEL) | | | | |
|------------------------------|------------------|---------------|---------------|---------------|--|
| INGREDIENT DATA | | | | | |
| Not Available | | | | | |
| Emergency Limits | Emergency Limits | | | | |
| Ingredient | TEEL-1 | TEEL-2 | | TEEL-3 | |
| 4-Methyl-2-nitrobenzoic acid | Not Available | Not Available | | Not Available | |
| | | | | | |
| Ingredient | Original IDLH | | Revised IDLH | | |
| 4-Methyl-2-nitrobenzoic acid | Not Available | | Not Available | | |
| | | | | | |

Occupational Exposure Banding

Ingredient

Occupational Exposure Band Rating

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|------------------------------|--|----------------------------------|
| 4-Methyl-2-nitrobenzoic acid | E | ≤ 0.01 mg/m³ |
| Notes: | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health. | |

Exposure controls

| Appropriate engineering 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 • Local exhaust ventilation is required where solids are h large, a certain proportion will be powdered by mutual f • If in spite of local exhaust an adverse concentration of fi- considered. Such protection might consist of: (a): particle dust respirators, if necessary, combined with air (b): filter respirators with absorption cartridge or canister of (c): fresh-air hoods or masks. Air contaminants generated in the workplace possess vary velocities" of fresh circulating air required to effectively rem Type of Contaminant: direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel ge velocity into zone of very high rapid air motion). Within each range the appropriate value depends on: Lower end of the range 1: Room air currents minimal or favourable to capture 2: Contaminants of low toxicity or of nuisance value only. 3: Intermittent, low production. 4: Large hood or large air mass in motion Simple theory shows that air velocity falls rapidly with dista generally decreases with the square of distance from the e extraction point should be adjusted, accordingly, after refer extraction point, should be adjusted, accordingly, after refer extraction point, should be adjusted, air velocities a installed or used. | orkers and will typically be independent vity or process is done to reduce to a selected hazard "physically" aw ronment. Ventilation can remove of the match the particular process and revent employee overexposure. andled as powders or crystals; event riction. the substance in air could occur, re- in absorption cartridge; the right type; ing "escape" velocities which, in tu- tove the contaminant. conveyer loading, crusher dusts, enerated dusts (released at high in Upper end of the range 1: Disturbing room air currents 2: Contaminants of high toxicity 3: High production, heavy use 4: Small hood-local control only nce away from the opening of a sin- xtraction point (in simple cases). T ence to distance from the contami- n/s (800-2000 f/min) for extraction erations, producing performance de re multiplied by factors of 10 or mo- | Indent of worker interactions to he risk. ay from the worker and ventilation r dilute an air contaminant if chemical or contaminant in use. en when particulates are relatively espiratory protection should be rn, determine the "capture gas 1-2.5 m/s (200-500 f/min.) itial 2.5-10 m/s (500-2000 f/min.) itial 2.5-10 m/s (500-2000 f/min.) mple extraction pipe. Velocity herefore the air speed at the nating source. The air velocity at the of crusher dusts generated 2 metres efficits within the extraction |
|--|--|--|--|
| Individual protection measures, such as personal protective equipment | | | |
| Eye and face protection | Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national Contact lenses may pose a special hazard; soft contact document, describing the wearing of lenses or restriction include a review of lens absorption and adsorption for t Medical and first-aid personnel should be trained in the event of chemical exposure, begin eye irrigation immed be removed at the first signs of eye redness or irritation have washed hands thoroughly. [CDC NIOSH Current lenses] | t lenses may absorb and concentrations on use, should be created for each the class of chemicals in use and a ir removal and suitable equipment diately and remove contact lens as a lens should be removed in a cle | each workplace or task. This should in account of injury experience. should be readily available. In the soon as practicable. Lens should |
| Skin protection | See Hand protection below | | |
| | | | |

| Hands/feet protection | NOTE: Normatical may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, betts and watch-bands should be removed and destroyed. 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 dired thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and duration of contact. I requency and duration of contact. I demical resistance of glove material. Gloves totset 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 3 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.4 or national equivalent) is according to EN 374, AS/NZS 2161.4 or national equivalent). Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-(mr use. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-form use. Contaminated gloves should be replaced. As defined in ASTM F.739-96 in any application, gloves are rated as: Excellent when breakthroug |
|-----------------------|--|
| Body protection | See Other protection below |
| Other protection | Overalls. P.V.C apron. 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 Air-line* | - | PAPR-P1 - |
| up to 50 x ES | Air-line** | P2 | PAPR-P2 |
| up to 100 x ES | - | P3 | - |
| | | Air-line* | - |
| 100+ x ES | - | Air-line** | PAPR-P3 |

* - Negative pressure demand ** - Continuous flow

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

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

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

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

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

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

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

· Try to avoid creating dust conditions.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Not Available | | |
|--|---------------|--|----------------|
| | · | | |
| Physical state | Solid | Relative density (Water = 1) | Not Available |
| Odour | Not Available | Partition coefficient 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) | 160-164 | 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 |

SECTION 10 Stability and reactivity

| Reactivity | See section 7 |
|-------------------------------------|---|
| Chemical stability | Product is considered stable and hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 Toxicological information

Information on toxicological effects

| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. |
|--------------|---|
| Ingestion | The material has 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 | Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result. |
| Chronic | Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. |
| | |
| Legend: | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. |

| 4-Methyl-2-nitrobenzoic acid | Contact allergies quickly manifest themselves as pathogenesis of contact eczema involves a cell-m skin reactions, e.g. contact urticaria, involve antib simply determined by its sensitisation potential: th equally important. A weakly sensitising substance stronger sensitising potential with which few indiv noteworthy if they produce an allergic test reactio | nediated (T lymphocytes) immune ody-mediated immune reactions. ne distribution of the substance an e which is widely distributed can b iduals come into contact. From a | reaction of the delayed type. Other allergic The significance of the contact allergen is no d the opportunities for contact with it are e a more important allergen than one with clinical point of view, substances are |
|----------------------------------|--|---|--|
| Acute Toxicity | ✓ | Carcinogenicity | × |
| Skin Irritation/Corrosion | × | Reproductivity | × |
| Serious Eye Damage/Irritation | × | STOT - Single Exposure | × |
| Respiratory or Skin | | STOT - Repeated Exposure | × |

Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Legend:

X – Data either not available or does not fill the criteria for classification Data available to make classification

×

Aspiration Hazard

SECTION 12 Ecological information

sensitisation

Mutagenicity

×

Toxicity

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

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------------------------|-------------------------|------------------|
| 4-Methyl-2-nitrobenzoic acid | HIGH | HIGH |

Bioaccumulative potential

| Ingredient | Bioaccumulation | |
|------------------------------|-----------------------|--|
| 4-Methyl-2-nitrobenzoic acid | LOW (LogKOW = 1.8969) | |

| Ingredient | Mobility | |
|------------------------------|-------------------|--|
| 4-Methyl-2-nitrobenzoic acid | LOW (KOC = 27.63) | |

SECTION 13 Disposal considerations

| | Containers may still present a chemical hazard/ danger when empty. |
|---------------------|--|
| | Return to supplier for reuse/ recycling if possible. |
| | Otherwise: |
| | If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to |
| Product / Packaging | store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. |
| disposal | Where possible retain label warnings and SDS and observe all notices pertaining to the product. |
| | 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. |

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

| Product name | Group |
|------------------------------|---------------|
| 4-Methyl-2-nitrobenzoic acid | Not Available |

Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|------------------------------|---------------|
| 4-Methyl-2-nitrobenzoic acid | Not Available |

SECTION 15 Regulatory information

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

4-Methyl-2-nitrobenzoic acid is found on the following regulatory lists

Not Applicable

National Inventory Status

| National Inventory | Status | | |
|--|-----------------------------------|--|--|
| Australia - AIIC / Australia Non-Industrial Use | No (4-Methyl-2-nitrobenzoic acid) | | |
| Canada - DSL | (4-Methyl-2-nitrobenzoic acid) | | |
| Canada - NDSL | No (4-Methyl-2-nitrobenzoic acid) | | |
| China - IECSC | No (4-Methyl-2-nitrobenzoic acid) | | |
| Europe - EINEC / ELINCS / NLP | No (4-Methyl-2-nitrobenzoic acid) | | |
| Japan - ENCS | No (4-Methyl-2-nitrobenzoic acid) | | |

| National Inventory | Status | |
|---------------------|--|--|
| Korea - KECI | No (4-Methyl-2-nitrobenzoic acid) | |
| New Zealand - NZIoC | No (4-Methyl-2-nitrobenzoic acid) | |
| Philippines - PICCS | No (4-Methyl-2-nitrobenzoic acid) | |
| USA - TSCA | No (4-Methyl-2-nitrobenzoic acid) | |
| Taiwan - TCSI | No (4-Methyl-2-nitrobenzoic acid) | |
| Mexico - INSQ | No (4-Methyl-2-nitrobenzoic acid) | |
| Vietnam - NCI | No (4-Methyl-2-nitrobenzoic acid) | |
| Russia - FBEPH | No (4-Methyl-2-nitrobenzoic acid) | |
| 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 | 07/07/2023 |
|---------------|------------|
| Initial Date | 07/07/2023 |

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|-------------------|---|
| 1.2 | 07/07/2023 | CAS Number, Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations - Disposal, Exposure controls / personal protection - Exposure Standard, Firefighting measures - Fire Fighter (fire/explosion hazard), First Aid measures - First Aid (skin), Handling and storage - Handling Procedure, Composition / information on ingredients - Ingredients, Korean MSDS Number, Exposure controls / personal protection - Personal Protection (other), Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal protection - Personal Protection (storage - Spills (major), Accidental release measures - Spills (minor), Handling and storage - Storage (storage incompatibility), 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 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) Category 4, H302 | Expert judgement |
| Sensitisation (Skin) Category 1, H317 | Calculation method |

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