

Indoline-2-carboxylic acid **Apollo Scientific**

Part Number: OR59374 Version No: 3.3 Safety Data Sheet

Chemwatch Hazard Alert Code: 2

Issue Date: 05/07/2023 Print Date: 05/07/2023 S.GHS.GB-NIR.EN

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

Product Identifier

| Product name | Indoline-2-carboxylic acid |
|----------------------------------|----------------------------------|
| Chemical Name | (+/-)-indoline-2-carboxylic acid |
| Synonyms | Not Available |
| Chemical formula | C9-H9-N-O2 |
| Other means of identification | Not Available |
| CAS number | 78348-24-0* |

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]

H373 - Specific Target Organ Toxicity - Repeated Exposure Category 2, H361f - Reproductive Toxicity Category 2, H317 -Sensitisation (Skin) Category 1

1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI Legend:

Label elements

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

Hazard statement(s)

| H373 | May cause damage to organs through prolonged or repeated exposure. | |
|-------|--|--|
| H361f | Suspected of damaging fertility. | |
| H317 | May cause an allergic skin reaction. | |

Precautionary statement(s) Prevention

| P201 | Obtain special instructions before use. |
|------|--|
| P260 | Do not breathe dust/fume. |
| P280 | Wear protective gloves and protective clothing. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |

Precautionary statement(s) Response

| P308+P313 | IF exposed or concerned: Get medical advice/ attention. | |
|-----------|--|--|
| P302+P352 | IF ON SKIN: Wash with plenty of water. | |
| P314 | Get medical advice/attention if you feel unwell. | |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. | |
| P362+P364 | Take off contaminated clothing and wash it before reuse. | |

Precautionary statement(s) Storage

P405

Store locked up.

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 |
|-------------|-----------|--------------------------------|--|-------------------|
| 78348-24-0* | 100 | Indoline- 2-carboxylic acid | Specific Target Organ Toxicity - Repeated Exposure Category 2, Reproductive Toxicity Category 2, Sensitisation (Skin) Category 1; H373, H361f, H317 ^[1] | Not Available |

1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; * EU IOELVs Legend: 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 poisonous fumes. 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

| 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 | Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks. |
|-------------------------|--|
| Storage incompatibility | None known Store under argon |

SECTION 8 Exposure controls / personal protection

| Control parameters | | | | | |
|------------------------------------|-----------------------------------|---------------|------------------|------------------|--|
| Occupational Exposure Limits (OEL) | | | | | |
| INGREDIENT DATA | INGREDIENT DATA | | | | |
| Not Available | | | | | |
| Emergency Limits | | | | | |
| Ingredient | TEEL-1 | TEEL-2 | | TEEL-3 | |
| Indoline-2-carboxylic acid | Not Available | Not Available | | Not Available | |
| | | | | | |
| Ingredient | Original IDLH | | Revised IDLH | | |
| Indoline-2-carboxylic acid | Not Available | | Not Available | | |
| Occupational Exposure Banding | | | | | |
| Ingredient | Occupational Exposure Band Rating | | Occupational Exp | osure Band Limit | |

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|----------------------------|--|----------------------------------|
| Indoline-2-carboxylic 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 we 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 envii 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 the considered. Such protection might consist of: (a): particle dust respirators, if necessary, combined with and (b): filter respirators with absorption cartridge or canister of (c): fresh-air hoods or masks. Air contaminants generated in the workplace possess varyivelocities" 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 generative 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 distat generally decreases with the square of distance from the e extraction point should be adjusted, accordingly, after refer extraction fan, for example, should be a minimum of 4-10 m distant from the extraction point. Other mechanical conside apparatus, make it essential that theoretical air velocities a installed or used. | orkers and will typically be independe vity or process is done to reduce the r a selected hazard "physically" away f ronment. Ventilation can remove or dil match the particular process and che event employee overexposure. andled as powders or crystals; even w riction. the substance in air could occur, respi n absorption cartridge; the right type; ing "escape" velocities which, in turn, iove the contaminant. conveyer loading, crusher dusts, gas enerated dusts (released at high initial 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 simpl xtraction point (in simple cases). Ther ence to distance from the contaminati n/s (800-2000 f/min) for extraction of cor arations, producing performance defici | e extraction pipe. Velocity refore the air speed at the ing source. The air velocity at the crusher dusts generated 2 metres its 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 equivalent] Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]. | | |
| Skin protection | See Hand protection below | | |
| | | | |

| Hands/feet protection | NOTE: A the material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contract. Contaminated leafter times, such as shoes, belts and watch-bands should be removed and destroyed. The seade trade leafter times, such as shoes, belts and watch-bands should be removed and destroyed. The seade trade leafter times, such as shoes to be obtained from the manufacture of the protective gloves and has to be observed when making at 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 throughly. Application of a non-perfurmed molatuitizer is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: Inequery and duration of converts. Glove thickness and Gloves tosted to a relevant standard (e.g. Europe EN 374, US F739, AS/AZS 2161.1 or national equivalent). Glove tosted to a relevant standard (e.g. Europe EN 374, US F739, AS/AZS 2161.1 or national equivalent) is recommended. Glove tosted to a relevant standard (e.g. Europe EN 374, US F739, AS/AZS 2161.1 or national equivalent) is recommended. Glove tosted to a relevant standard (e.g. Europe EN 374, US F739, AS/AZS 2161.1 or national equivalent) is recommended. Glove tosted to a relevant standard (e.g. Europe EN 374, US F739, AS/AZS 2161.1 or national equivalent) is recommended. Glove thickness and items 20 min Glove thickness and items as application, gloves are rated as: Scalend in ASTM F739-96 in any application, gloves are rated as: Scalend in ASTM F739-96 in any application, gloves are rated as: Scalend in ASTM F739-96 in any application, gloves are rated as: Scalend in ASTM F739-96 in any application, gl |
|-----------------------|--|
| 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) | 168(dec.) | 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 | 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

SECTION 11 Toxicological information

See section 5

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. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |
| 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 | Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. |
| | |

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

| Indoline-2-carboxylic acid | The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. |
|----------------------------|---|
|----------------------------|---|

| 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: \times – Data either not available or does not fill the criteria for classification | | | |

egend: X − Data either not available or does not fill the criteria for classification
✓ − Data available to make classification

SECTION 12 Ecological information

Toxicity

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

DO NOT discharge into sewer or waterways.

| 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

| aste treatment methods | |
|------------------------|--|
| | 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

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 |
|----------------------------|---------------|
| Indoline-2-carboxylic acid | Not Available |

Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|----------------------------|---------------|
| Indoline-2-carboxylic acid | Not Available |

SECTION 15 Regulatory information

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

Indoline-2-carboxylic acid is found on the following regulatory lists

Europe EC Inventory

National Inventory Status

| National Inventory | Status | | |
|--|--|--|--|
| Australia - AIIC / Australia Non-Industrial Use | No (Indoline-2-carboxylic acid) | | |
| Canada - DSL | No (Indoline-2-carboxylic acid) | | |
| Canada - NDSL | No (Indoline-2-carboxylic acid) | | |
| China - IECSC | No (Indoline-2-carboxylic acid) | | |
| Europe - EINEC / ELINCS / NLP | Yes | | |
| Japan - ENCS | No (Indoline-2-carboxylic acid) | | |
| Korea - KECI | No (Indoline-2-carboxylic acid) | | |
| New Zealand - NZIoC | No (Indoline-2-carboxylic acid) | | |
| Philippines - PICCS | No (Indoline-2-carboxylic acid) | | |
| USA - TSCA | No (Indoline-2-carboxylic acid) | | |
| Taiwan - TCSI | Yes | | |
| Mexico - INSQ | No (Indoline-2-carboxylic acid) | | |
| Vietnam - NCI | No (Indoline-2-carboxylic acid) | | |
| Russia - FBEPH | No (Indoline-2-carboxylic 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 | 05/07/2023 |
|---------------|------------|
| Initial Date | 06/07/2023 |

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|-------------------|--|
| 2.3 | 05/07/2023 | Hazards identification - Classification, Korean MSDS Number, Identification of the substance / mixture and of the company / undertaking - Supplier Information |

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 |
|--|--------------------------|
| Specific Target Organ Toxicity - Repeated Exposure Category 2, H373 | Calculation method |
| Reproductive Toxicity Category 2, H361f | Calculation method |
| Sensitisation (Skin) Category 1, H317 | Calculation method |

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