

# 5-Nitro-1H-indazole Apollo Scientific

Part Number: **OR9104** Version No: **3.4** 

Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

# Chemwatch Hazard Alert Code: 2

Issue Date: **10/01/2024**Print Date: **10/01/2024**S.REACH.GB-NIR.EN

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

#### 1.1. Product Identifier

| THE TOUGHT INCIDENCE          |                     |  |  |  |
|-------------------------------|---------------------|--|--|--|
| Product name                  | 5-Nitro-1H-indazole |  |  |  |
| Synonyms                      | Not Available       |  |  |  |
| Chemical formula              | C7H5N3O2            |  |  |  |
| Other means of identification | Not Available       |  |  |  |
| CAS number                    | 5401-94-5*          |  |  |  |
| EC number                     | 226-451-5           |  |  |  |

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

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

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

| Registered company name | Apollo Scientific                               | Apollo Scientific Itd  |
|-------------------------|---|--|
| Address                 | Whitefield Road, Bredbury SK62QR United Kingdom | Whitefield Road, Bredbury Cheshire SK6 2QR Northern Ireland (UK) |
| 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                                     |

# 1.4. Emergency telephone number

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

# **SECTION 2 Hazards identification**

# 2.1. Classification of the substance or mixture

| Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1] | H302 - Acute Toxicity (Oral) Category 4, H312 - Acute Toxicity (Dermal) Category 4, H332 - Acute Toxicity (Inhalation) Category 4 |
|---|---|
| Legend:   | 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI                                  |

# 2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

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#### Hazard statement(s)

| H302 | Harmful if swallowed.         |  |  |
|------|-------------------------------|--|--|
| H312 | Harmful in contact with skin. |  |  |
| H332 | Harmful if inhaled.           |  |  |

# Supplementary statement(s)

Not Applicable

# Precautionary statement(s) Prevention

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

# Precautionary statement(s) Response

| P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell. |  |  |  |
|-----------|---|--|--|--|
| P302+P352 | D2+P352 IF ON SKIN: Wash with plenty of water.                                      |  |  |  |
| P304+P340 | FINHALED: Remove person to fresh air and keep comfortable for breathing.            |  |  |  |
| P330      | Rinse mouth.  |  |  |  |
| P362+P364 | Take off contaminated clothing and wash it before reuse.                            |  |  |  |

#### 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.

#### 2.3. Other hazards

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

# **SECTION 3 Composition / information on ingredients**

# 3.1.Substances

| 1. CAS No<br>2.EC No<br>3.Index No<br>4.REACH No                   | %[weight] | Name                    | Classification according to regulation (EC) No 1272/2008 [CLP] and amendments  | SCL /<br>M-Factor | Nanoform Particle<br>Characteristics |
|--|-----------|-------------------------|--|-------------------|--------------------------------------|
| 1. 5401-94-5*<br>2.226-451-5<br>3.Not Available<br>4.Not Available | 100       | 5-Nitro-<br>1H-indazole | Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Acute Toxicity (Inhalation) Category 4; H302, H312, H332 [1] | Not<br>Available  | 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 available; [e] Legend: Substance identified as having endocrine disrupting properties

#### 3.2.Mixtures

See 'Information on ingredients' in section 3.1

# **SECTION 4 First aid measures**

# 4.1. Description of first aid measures

| The booking and miss and 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 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                        | <ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul> |  |  |  |  |

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► IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.

- For advice, contact a Poisons Information Centre or a doctor.
- Urgent hospital treatment is likely to be needed.
- In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.
- If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.
- If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:

▶ INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

#### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

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

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

Ingestion

BASIC TREATMENT

Establish a patent airway with suction where necessary.

- ▶ Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- ▶ DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

D. (ALICED TDE ATMENT

ADVANCED TREATMENT

- ▶ Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- ▶ Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

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

# 5.1. Extinguishing media

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

#### 5.2. Special hazards arising from the substrate or mixture

# **SECTION 6 Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

#### 6.2. Environmental precautions

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See section 12

# 6.3. Methods and material for containment and cleaning up

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|---|--|--|--|--|--|--|
| Minor Spills  | <ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>   |  |  |  |  |  |
| Major Spills  | Moderate hazard.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.  Wear breathing apparatus plus protective gloves.  Prevent, by any means available, spillage from entering drains or water course.  Stop leak if safe to do so.  Contain spill with sand, earth or vermiculite.  Collect recoverable product into labelled containers for recycling.  Neutralise/decontaminate residue (see Section 13 for specific agent).  Collect solid residues and seal in labelled drums for disposal.  Wash area and prevent runoff into drains.  After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.  If contamination of drains or waterways occurs, advise emergency services. |  |  |  |  |  |

#### 6.4. Reference to other sections

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

# **SECTION 7 Handling and storage**

# 7.1. Precautions for safe handling

| Safe handling                 | <ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul> |
|-------------------------------|---|
| Fire and explosion protection | See section 5   |
| Other information             |   |

# 7.2. Conditions for safe storage, including any incompatibilities

| Suitable container   | <ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul> |
|--|---|
| Storage incompatibility  | None known  |
| Hazard categories in accordance with Regulation (EC) No 1272/2008  | Not Available   |
| Qualifying quantity (tonnes) of<br>dangerous substances as<br>referred to in Article 3(10) for<br>the application of | Not Available   |

# 7.3. Specific end use(s)

See section 1.2

# SECTION 8 Exposure controls / personal protection

# 8.1. Control parameters

| Ingredient    | DNELs<br>Exposure Pattern Worker | PNECs<br>Compartment |
|---------------|----------------------------------|----------------------|
| Not Available | Not Available                    | Not Available        |

<sup>\*</sup> Values for General Population

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

Not Applicable

#### **Emergency Limits**

| Ingredient TEEL-1              | TEEL-2           |     | TEEL-3        |
|--------------------------------|------------------|-----|---------------|
| 5-Nitro-1H-indazole Not Availa | able Not Availal | ble | Not Available |

| Ingredient          | Original IDLH | Revised IDLH  |
|---------------------|---------------|---------------|
| 5-Nitro-1H-indazole | Not Available | Not Available |

#### Occupational Exposure Banding

| Ingredient          | Occupational Exposure Band Rating  | Occupational Exposure Band Limit |  |  |
|---------------------|--|----------------------------------|--|--|
| 5-Nitro-1H-indazole | 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. |                                  |  |  |

#### 8.2. Exposure controls

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

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

Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant.

| Type of Contaminant:  | Air Speed:                      |
|---|---------------------------------|
| solvent, vapours, degreasing etc., evaporating from tank (in still air).  | 0.25-0.5 m/s<br>(50-100 f/min.) |
| aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) | 0.5-1 m/s (100-200 f/min.)      |
| direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)  | 1-2.5 m/s (200-500 f/min.)      |
| grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).  | 2.5-10 m/s<br>(500-2000 f/min.) |

# 8.2.1. Appropriate engineering controls

Within each range the appropriate value depends on:

| Lower end of the range                                     | Upper end of the range           |
|--|----------------------------------|
| 1: Room air currents minimal or favourable to capture      | 1: Disturbing room air currents  |
| 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity |
| 3: Intermittent, low production.                           | 3: High production, heavy use    |
| 4: Large hood or large air mass in motion                  | 4: Small hood-local control only |

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

# 8.2.2. Individual protection measures, such as personal protective equipment









# Eve 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

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Wear chemical protective gloves, e.g. PVC. ▶ Wear safety footwear or safety gumboots, e.g. Rubber 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.  $\boldsymbol{\cdot}$  chemical resistance of glove material, · glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Hands/feet protection · Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: · Excellent when breakthrough time > 480 min · Good when breakthrough time > 20 min · Fair when breakthrough time < 20 min · Poor when glove material degrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. · Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. **Body protection** See Other protection below

#### 8.2.3. Environmental exposure controls

Other protection

See section 12

# SECTION 9 Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Overalls.P.V.C apron.

Barrier cream.Skin cleansing cream.Eye wash unit.

| 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)          | 204-208       | 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 |

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| Solubility in water      | Not Available | pH as a solution (1%)                | Not Available |
|--------------------------|---------------|--------------------------------------|---------------|
| Vapour density (Air = 1) | Not Available | VOC g/L                              | Not Available |
| Nanoform Solubility      | Not Available | Nanoform Particle<br>Characteristics | Not Available |
| Particle Size            | Not Available |                                      |               |

# 9.2. Other information

Not Available

# **SECTION 10 Stability and reactivity**

| 10.1.Reactivity                          | See section 7.2  |
|--|--|
| 10.2. Chemical stability                 | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| 10.3. Possibility of hazardous reactions | See section 7.2  |
| 10.4. Conditions to avoid                | See section 7.2  |
| 10.5. Incompatible materials             | See section 7.2  |
| 10.6. Hazardous decomposition products   | See section 5.3  |

# **SECTION 11 Toxicological information**

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

| i.i. iiiioiiiiatioii oii iiazara cit | isses as defined in Regulation (EO) NO 12/2/2000   |                          |  |  |
|--------------------------------------|--|--------------------------|--|--|
| Inhaled                              | Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.  The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.   |                          |  |  |
| Ingestion                            | Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.  |                          |  |  |
| Skin Contact                         | Skin contact with the material may be harmful; systemic effects may result following absorption.  The material is not thought to be a skin irritant (as classified by EC Directives using animal models). Temporary discomfort, however, may result from prolonged dermal exposures.  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. |                          |  |  |
| Еуе                                  | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).   |                          |  |  |
| Chronic                              | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.   |                          |  |  |
|                                      |  |                          |  |  |
| Legend:                              | Value obtained from Europe ECHA Registered Substa<br>specified data extracted from RTECS - Register of Toxic   | •                        | ed from manufacturer's SDS. Unless otherwise |  |
|                                      |  |                          |  |  |
| Acute Toxicity                       | ✓  | Carcinogenicity          | ×  |  |
| Skin Irritation/Corrosion            | ×  | Reproductivity           | ×  |  |
| Serious Eye Damage/Irritation        | ×  | STOT - Single Exposure   | ×  |  |
| Respiratory or Skin sensitisation    | ×  | STOT - Repeated Exposure | ×  |  |
| Mutagenicity                         | ×  | Aspiration Hazard        | ×  |  |

Legend:

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

# 11.2 Information on other hazards

# 11.2.1. Endocrine disrupting properties

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

# 11.2.2. Other information

See Section 11.1

# **SECTION 12 Ecological information**

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#### 12.1. 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.

#### 12.2. Persistence and degradability

| Ingredient          | Persistence: Water/Soil | Persistence: Air |
|---------------------|-------------------------|------------------|
| 5-Nitro-1H-indazole | HIGH                    | HIGH             |

#### 12.3. Bioaccumulative potential

| Ingredient          | Bioaccumulation     |
|---------------------|---------------------|
| 5-Nitro-1H-indazole | LOW (LogKOW = 2.03) |

# 12.4. Mobility in soil

| Ingredient          | Mobility          |
|---------------------|-------------------|
| 5-Nitro-1H-indazole | LOW (KOC = 124.5) |

#### 12.5. Results of PBT and vPvB assessment

|                         | P                       | В             | Т             |  |
|-------------------------|-------------------------|---------------|---------------|--|
| Relevant available data | Not Available           | Not Available | Not Available |  |
| PBT                     | X                       | ×             | ×             |  |
| vPvB                    | X                       | ×             | ×             |  |
| PBT Criteria fulfilled? | PBT Criteria fulfilled? |               |               |  |
| vPvB                    |                         |               | No            |  |

#### 12.6. Endocrine disrupting properties

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

#### 12.7. Other adverse effects

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

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

#### 13.1. Waste treatment methods

- 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 store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- Where possible retain label warnings and SDS and observe all notices pertaining to the product.

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

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

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

# Product / Packaging disposal

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

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

Waste treatment options Not Available
Sewage disposal options Not Available

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

#### Labels Required

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| Marine Pollutant                 | NO  |   |                |
|----------------------------------|---|---|----------------|
| HAZCHEM                          | Not Applicable  |   |                |
| and transport (ADD), NOT DE      |   | AF DANGEROUS COORS                        |                |
|                                  | GULATED FOR TRANSPORT C   | F DANGEROUS GOODS                         |                |
| 14.1. UN number or ID number     | Not Applicable  |   |                |
| 14.2. UN proper shipping name    | Not Applicable  |   |                |
| 14.3. Transport hazard           | Class Not Applie  | cable                                     |                |
| class(es)                        | Subsidiary Hazard Not Applic  | cable                                     |                |
| 14.4. Packing group              | Not Applicable  |   |                |
| 14.5. Environmental hazard       | Not Applicable  |   |                |
|                                  | Hazard identification (Kemler)                                      | Not Applicable                            |                |
|                                  | Classification code   | Not Applicable                            |                |
| 14.6. Special precautions for    | Hazard Label  | Not Applicable                            |                |
| user                             | Special provisions  | Not Applicable                            |                |
|                                  | Limited quantity  | Not Applicable                            |                |
|                                  | Tunnel Restriction Code   | Not Applicable                            |                |
|                                  |   |   |                |
| • •                              | R): NOT REGULATED FOR TRA   | NSPORT OF DANGEROU                        | JS GOODS       |
| 14.1. UN number                  | Not Applicable  |   |                |
| 14.2. UN proper shipping name    | Not Applicable  |   |                |
|                                  | ICAO/IATA Class   | Not Applicable                            |                |
| 14.3. Transport hazard class(es) | ICAO / IATA Subsidiary Hazard                                       | O / IATA Subsidiary Hazard Not Applicable |                |
| Class(es)                        | ERG Code Not Applicable   |   |                |
| 14.4. Packing group              | Not Applicable  |   |                |
| 14.5. Environmental hazard       | Not Applicable  |   |                |
|                                  | Special provisions  |   | Not Applicable |
|                                  | Special provisions  |   | Not Applicable |
|                                  | Cargo Only Packing Instructions                                     |   | Not Applicable |
| 14.6. Special precautions for    | Cargo Only Maximum Qty / Pack                                       |   | Not Applicable |
| user                             | Passenger and Cargo Packing Instructions                            |   | Not Applicable |
|                                  | Passenger and Cargo Maximum   |   | Not Applicable |
|                                  | Passenger and Cargo Limited Q                                       |   | Not Applicable |
|                                  | Passenger and Cargo Limited Maximum Qty / Pack Not Applicable       |   | Not Applicable |
| Sea transport (IMDG-Code / GG    | GVSee): NOT REGULATED FOR   | TRANSPORT OF DANG                         | EROUS GOODS    |
| 14.1. UN number                  | Not Applicable  |   |                |
| 14.2. UN proper shipping name    | Not Applicable  |   |                |
|                                  | IMDG Class No   | t Applicable                              |                |
| 14.3. Transport hazard class(es) |   | t Applicable                              |                |
| 14.4. Packing group              | Not Applicable  |   |                |
| 14.5 Environmental hazard        | Not Applicable  |   |                |
|                                  | EMS Number Net A == 15-   | eable.                                    |                |
| 14.6. Special precautions for    | EMS Number Not Applicable  Secretary revisions Net Applicable       |   |                |
| user                             | Special provisions Not Applicable Limited Quantities Not Applicable |   |                |
|                                  | Limited Quantities Not Applic                                       | cable                                     |                |
| nland waterways transport (A     | DN): NOT REGULATED FOR TR   | ANSPORT OF DANGER                         | OUS GOODS      |
| 14.1. UN number                  | Not Applicable  |   |                |
| 14.2. UN proper shipping name    | Not Applicable  |   |                |
| 14.3. Transport hazard class(es) | Not Applicable Not Applicabl  | е   |                |
| 14.4. Packing group              | Not Applicable  |   |                |
| 14.5. Environmental hazard       | Not Applicable  |   |                |
|                                  | j   |   |                |

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14.6. Special precautions for user

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

# 14.7. Maritime transport in bulk according to IMO instruments

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

| Product name             | Pollution Category | Ship Type |
|--------------------------|--------------------|-----------|
| Poly(2+)cyclic aromatics | X                  | 1         |

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

| Product name        | Group         |
|---------------------|---------------|
| 5-Nitro-1H-indazole | Not Available |

# 14.7.3. Transport in bulk in accordance with the IGC Code

| Product name        | Ship Type     |
|---------------------|---------------|
| 5-Nitro-1H-indazole | Not Available |

# **SECTION 15 Regulatory information**

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

# 5-Nitro-1H-indazole is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

#### Additional Regulatory Information

Not Applicable

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

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

| _               | · · · · · · · · · · · · · · · · · · · |
|-----------------|---------------------------------------|
| Seveso Category | Not Available                         |

#### 15.2. Chemical safety assessment

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

#### **National Inventory Status**

| National Inventory                                 | Status   |
|--|--|
| Australia - AIIC / Australia<br>Non-Industrial Use | Yes  |
| Canada - DSL                                       | Yes  |
| Canada - NDSL                                      | No (5-Nitro-1H-indazole)   |
| China - IECSC                                      | Yes  |
| Europe - EINEC / ELINCS / NLP                      | Yes  |
| Japan - ENCS                                       | Yes  |
| Korea - KECI                                       | Yes  |
| New Zealand - NZIoC                                | Yes  |
| Philippines - PICCS                                | Yes  |
| USA - TSCA   | Yes  |
| Taiwan - TCSI                                      | Yes  |
| Mexico - INSQ                                      | No (5-Nitro-1H-indazole)   |
| Vietnam - NCI                                      | Yes  |
| Russia - FBEPH                                     | Yes  |
| 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 | 10/01/2024 |
|---------------|------------|
| Initial Date  | 05/07/2023 |

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#### 5-Nitro-1H-indazole

Full text Risk and Hazard codes

#### **SDS Version Summary**

| Version | Date of<br>Update | Sections Updated   |
|---------|-------------------|--|
| 2.4     | 10/01/2024        | Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Toxicological information - Acute Health (swallowed), First Aid measures - Advice to Doctor, Hazards identification - Classification, Disposal considerations - Disposal, Exposure controls / personal protection - Engineering Control, Ecological Information - Environmental, Firefighting measures - Fire Fighter (fire/explosion hazard), Firefighting measures - Fire Fighter (fire fighting), First Aid measures - First Aid (swallowed), First Aid measures - First Aid (inhaled), First Aid measures - First Aid (swallowed), Handling and storage - Handling Procedure, Composition / information on ingredients - Ingredients, Stability and reactivity - Instability Condition, Exposure controls / personal protection - Personal Protection (other), Exposure controls / personal protection - Personal Protection (hands/feet), Accidental release measures - Spills (major), Handling and storage - Storage (storage incompatibility) |

#### 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
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- 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         |  |  |
| Acute Toxicity (Dermal)<br>Category 4, H312                                   | Expert judgement         |  |  |
| Acute Toxicity (Inhalation)<br>Category 4, H332                               | Expert judgement         |  |  |

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