

| Apollo Scientific    | Chemwatch Hazard Alert Code: 2 |
|----------------------|--------------------------------|
| Part Number: OR25206 | Issue Date: 05/07/2023         |
| Version No: 2.2      | Print Date: 05/07/2023         |
| Safety Data Sheet    | S.GHS.GB-NIR.EN                |
|                      |                                |

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

### **Product Identifier**

| Product name                     | Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate |
|----------------------------------|--|
| Chemical Name                    | Ethyl 4-(4-methoxyphenoxy)-1,3-dimethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxylate |
| Synonyms                         | Not Available  |
| Other means of<br>identification | Not Available  |
| CAS number                       | 174842-34-3*   |

# 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<br>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<br>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 <sup>[1]</sup>

H312 - Acute Toxicity (Dermal) Category 4, H332 - Acute Toxicity (Inhalation) Category 4, H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H302 - Acute Toxicity (Oral) Category 4, H315 - Skin Corrosion/Irritation Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2

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

# Label elements

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

# Hazard statement(s)

| H312 | Harmful in contact with skin.     |
|------|-----------------------------------|
| H332 | Harmful if inhaled.               |
| H335 | May cause respiratory irritation. |
| H302 | Harmful if swallowed.             |
| H315 | Causes skin irritation.           |
| H319 | Causes serious eye irritation.    |

# Precautionary statement(s) Prevention

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

# Precautionary statement(s) Response

| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|----------------|--|
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.  |
| P302+P352      | IF ON SKIN: Wash with plenty of water.   |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P330           | Rinse mouth.   |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |

# Precautionary statement(s) Storage

| P405      | Store locked up.   |
|-----------|--|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

### Precautionary statement(s) Disposal

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

# Substances

| CAS No       | %[weight] | Name   | Classification according to regulation (EC) No 1272/2008<br>[CLP] and amendments   | SCL /<br>M-Factor |
|--------------|-----------|--|--|-------------------|
| 174842-34-3* | 100       | Ethyl 1,3-dimethyl-<br>4-(4-methoxyphenoxy)-<br>1H-pyrazolo[3,4-b]pyridine-<br>5-carboxylate | Acute Toxicity (Dermal) Category 4, Acute Toxicity (Inhalation)<br>Category 4, Specific Target Organ Toxicity - Single Exposure<br>(Respiratory Tract Irritation) Category 3, Acute Toxicity (Oral)<br>Category 4, Skin Corrosion/Irritation Category 2, Serious Eye<br>Damage/Eye Irritation Category 2; H312, H332, H335, H302,<br>H315, H319 <sup>[1]</sup> | Not<br>Available  |

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  | <ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>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.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
|--------------|---|
| Skin Contact | If skin or hair contact occurs: <ul> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>   |
| Inhalation   | <ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>   |
| Ingestion    | <ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>   |

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

# **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

|              | <ul> <li>Avoid breathing dust and contact with skin and eyes.</li> <li>Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Sweep up, shovel up or</li> <li>Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>Place spilled material in clean, dry, sealable, labelled container.</li> </ul>   |
|--------------|---|
| Major Spills | <ul> <li>Moderate hazard.</li> <li>CAUTION: Advise personnel in area.</li> <li>Alert Emergency Services and tell them location and nature of hazard.</li> <li>Control personal contact by wearing protective clothing.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Recover product wherever possible.</li> <li>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.</li> <li>ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.</li> <li>If contamination of drains or waterways occurs, advise Emergency Services.</li> </ul> |

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

# **SECTION 7 Handling and storage**

# 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> |
|-------------------|---|
| Other information | <ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>For major quantities:</li> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>  |

# Conditions for safe storage, including any incompatibilities

| Suitable container      | <ul> <li>Lined metal can, lined metal pail/ can.</li> <li>Plastic pail.</li> <li>Polyliner drum.</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 <ul> <li>Store under argon</li> </ul>   |

# **SECTION 8 Exposure controls / personal protection**

# Occupational Exposure Limits (OEL)

## INGREDIENT DATA

Not Available

### **Emergency Limits**

| Ingredient   | TEEL-1        | TEEL-2        |              | TEEL-3        |
|--|---------------|---------------|--------------|---------------|
| Ethyl 1,3-dimethyl-<br>4-(4-methoxyphenoxy)-<br>1H-pyrazolo[3,4-b]pyridine-<br>5-carboxylate | Not Available | Not Available |              | Not Available |
|  |               |               |              |               |
| Ingredient   | Original IDLH |               | Revised IDLH |               |
| Ethyl 1,3-dimethyl-  |               |               |              |               |

Not Available

# Occupational Exposure Banding

Not Available

4-(4-methoxyphenoxy)-

5-carboxylate

1H-pyrazolo[3,4-b]pyridine-

| Ingredient   | Occupational Exposure Band Rating  | Occupational Exposure Band Limit |  |
|--|--|----------------------------------|--|
| Ethyl 1,3-dimethyl-<br>4-(4-methoxyphenoxy)-<br>1H-pyrazolo[3,4-b]pyridine-<br>5-carboxylate | 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<br>potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure<br>band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health. |                                  |  |

### **Exposure controls**

|                         | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed<br>engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to<br>provide this high level of protection.<br>The basic types of engineering controls are:<br>Process controls which involve changing the way a job activity or process is done to reduce the risk.<br>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation<br>that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if<br>designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.<br>Employers may need to use multiple types of controls to prevent employee overexposure. |                                 |  |  |  |
|-------------------------|--|---------------------------------|--|--|--|
| Appropriate engineering | <ul> <li>Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.</li> <li>If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered.</li> <li>Such protection might consist of: <ul> <li>(a): particle dust respirators, if necessary, combined with an absorption cartridge;</li> <li>(b): filter respirators with absorption cartridge or canister of the right type;</li> <li>(c): fresh-air hoods or masks.</li> </ul> </li> <li>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.</li> </ul>   |                                 |  |  |  |
| controls                | Type of Contaminant:   | Type of Contaminant:            |  |  |  |
|                         | direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas<br>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 ge velocity into zone of very high rapid air motion).  | 2.5-10 m/s (500-2000<br>f/min.) |  |  |  |
|                         | Within each range the appropriate value depends on:  |                                 |  |  |  |
|                         | Lower end of the range   | Upper end of the range          |  |  |  |
|                         | Lower end of the range   |                                 |  |  |  |
|                         | 1: Room air currents minimal or favourable to capture  | 1: Disturbing room air currents |  |  |  |
|                         |  |                                 |  |  |  |
|                         | 1: Room air currents minimal or favourable to capture  | 1: Disturbing room air currents |  |  |  |

| Individual protection<br>protocols<br>equipment         Image: Color Solution<br>(Color Solution)         Image: Color Solution<br>(Color Solution)         Image: Color Solution<br>(Color Solution)           Eye and face protection         - Soluty glasses with side shelds.         - Users of geoges. (ASN25 1337, 1: FVI6 or national equivalent)           Eye and face protection         - Users of geoges. (ASN25 1337, 1: FVI6 or national equivalent)         - Users of geoges. (ASN25 1337, 1: FVI6 or national equivalent)           Soluty discussion         - Users of geoges. (ASN25 1337, 1: FVI6 or national equivalent)         - Users of geoges. (ASN25 1337, 1: FVI6 or national equivalent)           Eye and face protection         - Users of geoges. (ASN25 1337, 1: FVI6 or national equivalent)         - Users of damoid a specific protection on use, should be created for each workplate or task in the solution of the solution of spice specific protection.<br>Medical and the soluty globe of damoid a specific protection of users of matching and a socure of protection.<br>Medical and the soluty globe of the solution of users of the solution of the solution of users of the solution of usersol usersol uselet and users of the solution of users of the solut   | messatures, such age         Sixing glasses, whi also shelds.           • Chemical apogene, ISAN25 1337.1, ENHS or national equivalent]         • Centrale lenses may pose a special hazard; of contrale lenses may abord and concentrate infrants. A written policy document, descripting the waveing of lenses or relations on use, should be creaded or faults apogene. It is should include a relevant of the material in their renevoir and a statube equivalent is use and an account of prove paperance.           Eye and face protection         Sixing protection         The selection of audited equivalent is use and an account of prove paperance.           Sixing protection         Sever of the manufacture: DEX MOS IG Current intelligence builden 59.         The selection of audited equivalent is use and an account of prove paperance.           Sixing protection         Sever the chemical sepaceure. Segin yes ingator immediately and renove contract them as soon as practicable. Lens should be a more of a data and intelligence approximation of a several substances, the resistance of the glove material can an theorem and accounting information of averal substances.           Sixing protection         The selection of audited gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer.           The selection of audited gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer.           The selection of audited gloves thoraught, plotter on the selection of a several substances.         The selection of audited gloves thoraught, plotter on the selection of audited equivalent on theore and theore approximation of averal substance gloves include:<  |                                       | 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 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres 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.  |
|---|---|---------------------------------------|---|
| P Chemical geogles, ISAN25 3137.1, EN166 or national equivalent)         Eye and face protection         Pige and face protection         Rescale and the starting the vession of the start of contact lenses may also and concordinate initiants. A written policy document, describing the vession of the starting of the start   | • Chemical poggies, ISAN25 132, 1, ENIGE or national equivalent]         Eye and face protection       witched protection group as apocial huncuity of contrast contrasts of national to witched be crasted for each workplace or trast. This should include a review of the stapping of huncuity of entropy and remove contrasts for each workplace or trast. This should be removed at the first signs of eye redices or initiation - lens should be removed in a clean environment only after workers         Skin protection       See Hand protection below         The selection of aviable gloves does not only depend on the material, but also on further masks of quality which vary from environment only after workers have watched hands for only depend on the material, but also on further masks of quality which vary from environment on the calculated in advance and has therefore to be checked prior to the application.         The selection of aviable gloves does not only depend on the material, but also on further masks of quality which vary from environ to the calculated in advance and has therefore to be checked prior to the application.         The selection of aviable gloves does not only depend on the material, but also on hurther masks of quality which vary from environ to the calculated in advance and has therefore to be checked prior to the application.         The selection of gloves in side dependent on usage. Important factors in the selection of gloves induce: - i requerey and duration of contract.         • requerey and duration of contract.       • represent the advance and the therefore to a non-perfured mainstriner is recommended.         • requerey and duration of contract.       • represent the advance advance advance advance advance advance ad   | measures, such as personal protective |   |
| <ul> <li>Hands/feet protection</li> <li>Hands/feet protection</li> <li>Contaminated gloves also also also also also also also als</li></ul>   | Hands/feet protection         Hands/feet protection         Hands/feet protection         Gover the discussed the induced and the thickness is not negatively greater than 0.5 mm, are recommended.         Hands/feet protection         Hands/feet protection         Gover then break through time or substances has to be obtained from the manufacturer of the protective gloves and has to be obtained from the manufacturer of the protective gloves and has to be obtained from the manufacturer of the protective gloves and has to be obtained from the manufacturer of the protective gloves and has to be obtained from the manufacturer of the protective gloves and has to be obtained from the manufacturer of the protective gloves and has to be obtained from the manufacturer of the protective gloves induce: <ul> <li>inequency and duration of ontext,</li> <li>there induced the induced of the protection of glove material,</li> <li>glove thickness and</li> <li>deverting</li> </ul> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, ASNZS 2161.1 or national equivalent).</li> <li>When proteing or frequenity repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 60 minutes according to EN 374, ASNZS 2161.10 or national equivalent) is recommended.</li> <li>Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>constaminated gloves with a thickness is not accessing a good prediction of glove material. Therefore, glove selection should be reglication.</li> <li>Some glove polymer types are less affected by movement and this should be treplaced.</li> <li>Acoid wh</li>  | Eye and face protection               | <ul> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>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</li> </ul>   |
| <ul> <li>Hands/feet protection</li> <li>As therefore to be checked prior to the application. The search breakthrough time for substances has to be checked prior to the application. The search breakthrough time for substances has to be checked prior to the application. The search breakthrough time for substances has to be checked prior to the application. The search breakthrough time for substances has to be checked prior to the application. The search breakthrough time is a key alement of effective hand care. Growes 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.</li> <li>- frequency and duration of contact.</li> <li>- glove thickness and</li> <li>- when prolonged or frequently repeated contact may protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, ASNZS 2161.10.1 or national equivalent).</li> <li>- When prolonged or frequently repeated contact may protection class of 3 or higher (breakthrough time greater than 260 minutes according to EN 374, ASNZS 2161.10.1 or national equivalent) is recommended.</li> <li>- Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>- Some gloves should be replaced.</li> <li>- Social when breakthrough time &lt; 20 min</li> <li>- Sirve when there material digrades</li> <li>Forgeneral applications, gloves with a molecase should be taken into account when considering gloves for long-term use.</li> <li>- Sorie when glove material digrades</li> <li>Forgeneral applications, gloves with a thickness typically greater than 0.35 mm, are recommended.</li> <li>- Sorine when glove material digrades</li> <li>Forgeneral appli</li></ul> | Hands/feet protection       Imanufacturer 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 breakt through time for substances has to be obtained from the manufacturer of the protective gloves and has to be does not be calculated prior to the application. The exact breakt through time for substances has to be obtained from the manufacturer of the protective gloves and has to be does not be calculated prior to the application of gloves include:         - Hencing Hysteine is a key element of effective hand cares. Gloves must only be worn on clean hands. After using gloves, hands should be washed and driet thoroughly. Application of a non-perfurmed moissurise's recommended.         - Hencing Hysteine is a key element of effective hand cares. Gloves must only be worn on clean hands. After using gloves, hands should be washed and driet thoroughly. Application of a non-perfurmed moissurise's recommended.         - Hencing Hysteine is a key element of effective hand cares. Gloves must only be worn on clean hands. After using gloves, hands for the application, gloves tested to a relevant standard (e.g., Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).         - When prolycoptic of forguent propagated contact may occur, a glove with a protection class of 5 or higher (Dreakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.1 0.1 or national equivalent) is recommended.         - When prolycoptic or forguent propagate are less affected by movement and this should be taken into account when considering gloves for long-reletion class as diffected by movement and this should be taken into account when considering gloves for long-reletion when breakthrough time < 40 | Skin protection                       | See Hand protection below   |
|   | Body protection See Other protection below  | Hands/feet protection                 | <ul> <li>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.</li> <li>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.</li> <li>Personal hygine 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.</li> <li>Suitability and duration of contact,</li> <li>chemical resistance of glove material,</li> <li>glove hickness and</li> <li>dexterity</li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</li> <li>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.</li> <li>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.</li> <li>Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>Contaminated gloves should be replaced.</li> <li>As defined in ASTM F-739-96 in any application, gloves are rated as:</li> <li>Excellent when breakthrough time &gt; 20 min</li> <li>For general applications, glove with a thickness typically greater than 0.35 mm, are recommended.</li> <li>Is hould be absed on consideration of the takes tequirements and knowledge of breakthrough times.</li> <li>Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always b</li></ul> |

| ction | <ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul> |
|-------|--|
|       |  |

### **Respiratory protection**

Other prote

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<br>Air-line*      | -                    | PAPR-P1<br>-           |
| 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)

· 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<br>n-octanol / water | Not Available  |
| Odour threshold                                 | Not Available | Auto-ignition temperature<br>(°C)          | Not Available  |
| pH (as supplied)                                | Not Available | Decomposition<br>temperature (°C)          | Not Available  |
| Melting point / freezing<br>point (°C)          | 92-94         | Viscosity (cSt)                            | Not Available  |
| Initial boiling point and<br>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<br>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<br>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 <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.  |
| Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.             |
| Eye          | This material can cause eye irritation and damage in some persons.  |
| Chronic      | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.  |

Legend:

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

|                                   | Carcinogenicity          | × |
|-----------------------------------|--------------------------|---|
| Skin Irritation/Corrosion 🗸 🗸     | Reproductivity           | × |
| Serious Eye<br>Damage/Irritation  | STOT - Single Exposure   | × |
| Respiratory or Skin sensitisation | STOT - Repeated Exposure | × |
| Mutagenicity 🗙                    | Aspiration Hazard        | × |

And: X - Data either not available or does not fill the criteria for a
 - 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

| 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**

| Waste treatment methods         |  |
|---------------------------------|--|
| Product / Packaging<br>disposal | <ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Bury residue in an authorised landfill.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |

### **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         |
|--|---------------|
| Ethyl 1,3-dimethyl-<br>4-(4-methoxyphenoxy)-<br>1H-pyrazolo[3,4-b]pyridine-<br>5-carboxylate | Not Available |

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

| Product name   | Ship Type     |
|--|---------------|
| Ethyl 1,3-dimethyl-<br>4-(4-methoxyphenoxy)-<br>1H-pyrazolo[3,4-b]pyridine-<br>5-carboxylate | Not Available |

### **SECTION 15 Regulatory information**

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

Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate is found on the following regulatory lists Not Applicable

#### **National Inventory Status**

Issue Date: 05/07/2023 Print Date: 05/07/2023

Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate

| National Inventory                                 | Status   |
|--|--|
| Australia - AIIC / Australia<br>Non-Industrial Use | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| Canada - DSL                                       | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| Canada - NDSL                                      | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| China - IECSC                                      | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| Europe - EINEC / ELINCS / NLP                      | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| Japan - ENCS                                       | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| Korea - KECI                                       | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| New Zealand - NZIoC                                | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| Philippines - PICCS                                | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| USA - TSCA   | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| Taiwan - TCSI                                      | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| Mexico - INSQ                                      | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| Vietnam - NCI                                      | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| Russia - FBEPH                                     | No (Ethyl 1,3-dimethyl-4-(4-methoxyphenoxy)-1H-pyrazolo[3,4-b]pyridine-5-carboxylate)  |
| Legend:  | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require<br>registration. |

# **SECTION 16 Other information**

| Revision Date | 05/07/2023 |
|---------------|------------|
| Initial Date  | 06/07/2023 |

#### **SDS Version Summary**

| Version | Date of<br>Update | Sections Updated   |
|---------|-------------------|--|
| 1.2     |                   | Toxicological information - Acute Health (inhaled), Physical and chemical properties - Appearance, CAS Number,<br>Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations -<br>Disposal, Composition / information on ingredients - Ingredients, Korean MSDS Number, Identification of the<br>substance / mixture and of the company / undertaking - Supplier Information, Identification of the substance /<br>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   |  |
|---|--|
| 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<br>regulation (EC) No<br>1272/2008 [CLP] and<br>amendments                    | Classification Procedure |
|---|--------------------------|
| Acute Toxicity (Dermal)<br>Category 4, H312   | Expert judgement         |
| Acute Toxicity (Inhalation)<br>Category 4, H332   | Expert judgement         |
| Specific Target Organ<br>Toxicity - Single Exposure<br>(Respiratory Tract Irritation)<br>Category 3, H335 | Expert judgement         |
| Acute Toxicity (Oral)<br>Category 4, H302   | Expert judgement         |
| Skin Corrosion/Irritation<br>Category 2, H315   | Expert judgement         |
| Serious Eye Damage/Eye<br>Irritation Category 2, H319   | Expert judgement         |

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