

Creation Date 22-Oct-2010

Revision Date 05-Sep-2023

Revision Number 6

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Description: Cat No. : CAS No Molecular Formula <u>1-Methyl-1H-1,2,3-benzotriazole-5-carbaldehyde</u> CC23504CB; CC23504DA; CC23504DE; CC23504ZZ 499770-67-1 C8 H7 N3 O

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

| Recommended Use      | Laboratory chemicals.    |
|----------------------|--------------------------|
| Uses advised against | No Information available |

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

Company

#### UK entity/business name

Thermo Fisher Scientific (Heysham), Shore Road, Port of Heysham Industrial Park, Heysham, Lancashire, LA3 2XY United Kingdom

### EU entity/business name

Thermo Fisher Scientific Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium

E-mail address

begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

#### Physical hazards

Based on available data, the classification criteria are not met

#### Health hazards

#### 1-Methyl-1H-1,2,3-benzotriazole-5-carbaldehyde

Acute oral toxicity Acute Inhalation Toxicity - Dusts and Mists Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity - (single exposure)

#### **Environmental hazards**

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

#### 2.2. Label elements



Signal Word

Warning

#### Hazard Statements

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H302 + H332 Harmful if swallowed or if inhaled

#### **Precautionary Statements**

- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 Call a POISON CENTER or doctor if you feel unwell
- P332 + P313 If skin irritation occurs: Get medical advice/attention
- P337 + P313 If eye irritation persists: Get medical advice/attention

#### 2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

| Component  | CAS No      | EC No | Weight % | CLP Classification - Regulation (EC) No<br>1272/2008                                   |
|--|-------------|-------|----------|--|
| 1-Methyl-1H-1,2,3-benzotriazole-5-carbalde<br>hyde | 499770-67-1 |       | 97       | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H335) |

Category 4 (H302) Category 4 (H332) Category 2 (H315) Category 2 (H319) Category 3 (H335) Full text of Hazard Statements: see section 16

### **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

| General Advice                     | If symptoms persist, call a physician.   |
|------------------------------------|--|
| Eye Contact                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.                                  |
| Skin Contact                       | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.                                |
| Ingestion                          | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.  |
| Inhalation                         | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.                                     |
| Self-Protection of the First Aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |
|                                    |  |

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

None reasonably foreseeable.

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

Notes to Physician

Treat symptomatically.

### **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

Suitable Extinguishing Media Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam.

Extinguishing media which must not be used for safety reasons No information available.

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

Thermal decomposition can lead to release of irritating gases and vapors.

#### Hazardous Combustion Products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

#### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

#### 6.2. Environmental precautions

Should not be released into the environment.

#### 6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

### **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510Class 11Storage Class (LGK) (Germany)

#### 7.3. Specific end use(s)

Use in laboratories

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control parameters

#### Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

#### **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

No information available

#### Predicted No Effect Concentration (PNEC)

No information available.

#### 8.2. Exposure controls

#### **Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

### Personal protective equipment

| Eye Protection | Goggles | (European standard - EN 166) |
|----------------|---------|------------------------------|
|                |         |                              |

Protective gloves

Hand Protection

| Natural rubber Se        | e manufacturers | Glove thickness | EU standard | Glove comments        |
|--------------------------|-----------------|-----------------|-------------|-----------------------|
|                          | commendations   | -               | EN 374      | (minimum requirement) |
| Skin and body protection | n Long sle      | eved clothing.  |             |                       |

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

| Respiratory Protection          | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.<br>To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly  |
|---------------------------------|--|
| Large scale/emergency use       | Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced <b>Recommended Filter type:</b> Particulates filter conforming to EN 143   |
| Small scale/Laboratory use      | Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. <b>Recommended half mask:-</b> Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141<br>When RPE is used a face piece Fit Test should be conducted |
| Environmental exposure controls | No information available   |

Environmental exposure controls No information available.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1. Information on basic physical and chemical properties

#### 1-Methyl-1H-1,2,3-benzotriazole-5-carbaldehyde

| Physical State  | Solid  |                                   |
|---|--|-----------------------------------|
| Appearance<br>Odor<br>Odor Threshold<br>Melting Point/Range<br>Softening Point<br>Boiling Point/Range<br>Flammability (liquid)<br>Flammability (solid,gas)<br>Explosion Limits  | Off-white<br>No information available<br>No data available<br>162 °C / 323.6 °F<br>No data available<br>No information available<br>No information available<br>No data available                                      | Solid                             |
| Flash Point<br>Autoignition Temperature<br>Decomposition Temperature<br>pH<br>Viscosity<br>Water Solubility<br>Solubility in other solvents<br>Partition Coefficient (n-octanol/wat<br>Vapor Pressure<br>Density / Specific Gravity | No information available<br>No data available<br>No data available<br>No data available<br>No data available<br>No information available<br>No information available<br>ter)<br>No data available<br>No data available | Method - No information available |
| Bulk Density<br>Vapor Density<br>Particle characteristics   | No data available<br>No data available<br>No data available  | (Air = 1.0)                       |
| 9.2. Other information  |  |                                   |
| Molecular Formula<br>Molecular Weight   | C8 H7 N3 O<br>161.16   |                                   |

### **SECTION 10: STABILITY AND REACTIVITY**

| 10.1. Reactivity                                | None known, based on information available             |  |
|---|--|--|
| 10.2. Chemical stability                        | Stable under normal conditions.                        |  |
| 10.3. Possibility of hazardous reactions        |  |  |
| Hazardous Polymerization<br>Hazardous Reactions | No information available.<br>No information available. |  |
| 10.4. Conditions to avoid                       | Incompatible products.                                 |  |
| 10.5. Incompatible materials                    | Strong oxidizing agents.                               |  |

#### 10.6. Hazardous decomposition products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2).

### **SECTION 11: TOXICOLOGICAL INFORMATION**

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

#### **Product Information**

| (a) acute toxicity;<br>Oral<br>Dermal<br>Inhalation           | Category 4<br>No data available<br>No data available                           |
|---|--|
| (b) skin corrosion/irritation;                                | Category 2   |
| (c) serious eye damage/irritation;                            | Category 2   |
| (d) respiratory or skin sensitization;<br>Respiratory<br>Skin | No data available<br>No data available   |
| (e) germ cell mutagenicity;                                   | No data available  |
| (f) carcinogenicity;  | No data available<br>There are no known carcinogenic chemicals in this product |
| (g) reproductive toxicity;                                    | No data available  |
| (h) STOT-single exposure;                                     | Category 3   |
| Results / Target organs                                       | Respiratory system.  |
| (i) STOT-repeated exposure;                                   | No data available  |
| Target Organs   | No information available.  |
| (j) aspiration hazard;  | Not applicable<br>Solid  |
| Symptoms / effects,both acute and delayed                     | No information available.  |
| 11.2. Information on other hazards                            |  |
| Endocrine Disrupting Properties                               | Assess endocrine disrupting properties for human health. This prod             |

Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

### **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

| <u>12.7. Other adverse effects</u><br>Persistent Organic Pollutant<br>Ozone Depletion Potential | This product does not contain any known or suspected substance<br>This product does not contain any known or suspected substance |
|---|--|
| <u>12.6. Endocrine disrupting</u><br>properties<br>Endocrine Disruptor Information              | This product does not contain any known or suspected endocrine disruptors  |
| 12.5. Results of PBT and vPvB<br>assessment   | No data available for assessment.  |
| <u>12.4. Mobility in soil</u>   | No information available   |
| 12.3. Bioaccumulative potential   | No information available   |
| 12.2. Persistence and degradability   | No information available   |

# SECTION 13: DISPOSAL CONSIDERATIONS

| Waste from Residues/Unused<br>Products | Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. |
|--|--|
| Contaminated Packaging                 | Dispose of this container to hazardous or special waste collection point.  |
| European Waste Catalogue (EWC)         | According to the European Waste Catalog, Waste Codes are not product specific, but application specific.   |
| Other Information                      | Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.  |

## **SECTION 14: TRANSPORT INFORMATION**

| IMDG/IMO  | Not regulated |
|---|---------------|
| <u>14.1. UN number</u><br><u>14.2. UN proper shipping name</u><br>14.3. Transport hazard class(es)<br>14.4. Packing group |               |
| ADR   | Not regulated |
| <u>14.1. UN number</u><br>14.2. UN proper shipping name<br>14.3. Transport hazard class(es)<br>14.4. Packing group        |               |
| IATA_   | Not regulated |

1-Methyl-1H-1,2,3-benzotriazole-5-carbaldehyde

| 14.2. UN proper shipping name<br>14.3. Transport hazard class(es)<br>14.4. Packing group |                                  |
|--|----------------------------------|
| 14.5. Environmental hazards  | No hazards identified            |
| 14.6. Special precautions for user   | No special precautions required. |
| 14.7. Maritime transport in bulk according to IMO instruments                            | Not applicable, packaged goods   |

### SECTION 15: REGULATORY INFORMATION

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

#### International Inventories

14.1. UN number

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

|   | Component                         | CAS No      | EINECS | ELINCS | NLP | IECSC | TCSI | KECL | ENCS | ISHL |
|---|-----------------------------------|-------------|--------|--------|-----|-------|------|------|------|------|
| F | 1-Methyl-1H-1,2,3-benzotriazole-5 | 499770-67-1 | -      | -      | -   | -     | -    | -    | -    | -    |
|   | -carbaldehyde                     |             |        |        |     |       |      |      |      |      |

| Component  | CAS No      | TSCA | TSCA Inventory<br>notification -<br>Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|--|-------------|------|---|-----|------|------|-------|-------|
| 1-Methyl-1H-1,2,3-benzotriazole-5<br>-carbaldehyde | 499770-67-1 | -    | -   | -   | -    | -    | -     | -     |

Legend: X - Listed '-' - Not Listed KECL

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### Authorisation/Restrictions according to EU REACH

Not applicable

| Component  | CAS No      | REACH (1907/2006) -<br>Annex XIV - Substances<br>Subject to Authorization | U U | REACH Regulation (EC<br>1907/2006) article 59 -<br>Candidate List of<br>Substances of Very High<br>Concern (SVHC) |
|--|-------------|---|-----|---|
| 1-Methyl-1H-1,2,3-benzotriazole-5-c<br>arbaldehyde | 499770-67-1 | -   | -   | -   |

| Component  | CAS No      | Seveso III Directive (2012/18/EC) -<br>Qualifying Quantities for Major Accident<br>Notification | Seveso III Directive (2012/18/EC) -<br>Qualifying Quantities for Safety Report<br>Requirements |
|--|-------------|---|--|
| 1-Methyl-1H-1,2,3-benzotria<br>zole-5-carbaldehyde | 499770-67-1 | Not applicable  | Not applicable   |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

#### **National Regulations**

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification Water endangering class = 3 (self classification)

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

### **SECTION 16: OTHER INFORMATION**

#### Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

#### Legend

| CAS - Chemical Abstracts Service  | <b>TSCA</b> - United States Toxic Substances Control Act Section 8(b)<br>Inventory   |
|---|--|
| EINECS/ELINCS - European Inventory of Existing Commercial Chemica<br>Substances/EU List of Notified Chemical Substances<br>PICCS - Philippines Inventory of Chemicals and Chemical Substances<br>IECSC - Chinese Inventory of Existing Chemical Substances<br>KECL - Korean Existing and Evaluated Chemical Substances                            | ,<br>,   |
| WEL - Workplace Exposure Limit<br>ACGIH - American Conference of Governmental Industrial Hygienists<br>DNEL - Derived No Effect Level<br>RPE - Respiratory Protective Equipment<br>LC50 - Lethal Concentration 50%<br>NOEC - No Observed Effect Concentration<br>PBT - Persistent, Bioaccumulative, Toxic   | <ul> <li>TWA - Time Weighted Average</li> <li>IARC - International Agency for Research on Cancer</li> <li>Predicted No Effect Concentration (PNEC)</li> <li>LD50 - Lethal Dose 50%</li> <li>EC50 - Effective Concentration 50%</li> <li>POW - Partition coefficient Octanol:Water</li> <li>vPvB - very Persistent, very Bioaccumulative</li> </ul> |
| ADR - European Agreement Concerning the International Carriage of<br>Dangerous Goods by Road<br>IMO/IMDG - International Maritime Organization/International Maritime<br>Dangerous Goods Code<br>OECD - Organisation for Economic Co-operation and Development<br>BCF - Bioconcentration factor<br>Key literature references and sources for data | ICAO/IATA - International Civil Aviation Organization/International Air<br>Transport Association<br>MARPOL - International Convention for the Prevention of Pollution from<br>Ships<br>ATE - Acute Toxicity Estimate<br>VOC - (Volatile Organic Compound)  |

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

#### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

1-Methyl-1H-1,2,3-benzotriazole-5-carbaldehyde

Creation Date Revision Date Revision Summary 22-Oct-2010 05-Sep-2023 SDS sections updated, 1, 2, 9, 11, 12, 15, 16.

### This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet