

Revision Date 01-Sep-2023

Revision Number 3

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

1.1. Product identifier

Product Description: Cat No. : CAS No Molecular Formula 1,3-Benzodioxol-5-ylmethyl isothiocyanate S03337DA; S03337DE; S03337EA; S03337ZZ 4430-47-1 C9 H7 N O2 S

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

#### 1,3-Benzodioxol-5-ylmethyl isothiocyanate

Acute oral toxicity Acute dermal toxicity Acute Inhalation Toxicity - Vapors Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation

#### **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

Danger

#### Hazard Statements

H331 - Toxic if inhaled

H314 - Causes severe skin burns and eye damage

H302 + H312 - Harmful if swallowed or in contact with skin

#### **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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

#### 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   |
|---|-----------|-------|----------|--|
| 1,3-Benzodioxol-5-ylmethyl isothiocyanate | 4430-47-1 |       | <=100    | Acute Tox. 4 (H302)<br>Acute Tox. 4 (H312)<br>Acute Tox. 3 (H331)<br>Skin Corr. 1C (H314)<br>Eye Dam. 1 (H318) |

Category 4 (H302) Category 4 (H312) Category 3 (H331) Category 1 C (H314) Category 1 (H318) Full text of Hazard Statements: see section 16

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

#### 4.1. Description of first aid measures

| General Advice   | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.  |  |
|--|--|--|
| Eye Contact  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.   |  |
| Skin Contact   | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.  |  |
| Ingestion  | Do NOT induce vomiting. Call a physician or poison control center immediately.   |  |
| Inhalation   | If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Immediate medical attention is required. |  |
| 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 |  |  |

#### Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

#### 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

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant 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. The product causes burns of eyes, skin and mucous membranes.

#### **Hazardous Combustion Products**

None under normal use conditions.

#### 5.3. Advice for firefighters

#### 1,3-Benzodioxol-5-ylmethyl isothiocyanate

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### 6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

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

Soak up with inert absorbent material. 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. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

#### **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

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

Technical Rules for Hazardous Substances (TRGS) 510Class 6.1CStorage Class (LGK) (Germany)Class 6.1C

#### 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

#### 1,3-Benzodioxol-5-ylmethyl isothiocyanate

#### **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. 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 | <br>Gogales | (European standard - | - EN 166) |
|----------------|-------------|----------------------|-----------|
| Eye Frotection | Guyyies     | (Luiopean stanuaru - |           |

|   | Hand Protection   | Protectiv   | ve gloves       |                       |   |
|---|---|---|-----------------|-----------------------|---|
|   | Glove material<br>Nitrile rubber<br>Neoprene<br>Natural rubber<br>PVC | Breakthrough time<br>See manufacturers<br>recommendations | Glove thickness | EU standard<br>EN 374 | Glove comments<br>(minimum requirement) |
| _ | Skin and body prot  | tection 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> Organic gases and vapours filter Type A Brown conforming to EN14387   |
| 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.<br><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.

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

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

| Physical State   | Liquid  |  |
|--|---|--|
| 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       | Yellow<br>pungent<br>No data available<br>No data available<br>No data available<br>139 - 140 °C / 282.2 - 284 °F<br>No data available<br>Not applicable<br>No data available | Liquid                                   |
| 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/wate | No information available<br>No data available<br>No data available<br>No information available<br>No data available<br>No information available<br>No information available   | <b>Method -</b> No information available |
| Vapor Pressure<br>Density / Specific Gravity<br>Bulk Density<br>Vapor Density<br>Particle characteristics<br>9.2. Other information  | No data available<br>1.32 g/cm3<br>Not applicable<br>No data available<br>Not applicable (liquid)   | @ 20 °C<br>Liquid<br>(Air = 1.0)         |

| Molecular Formula | C9 H7 N O2 S |
|-------------------|--------------|
| Molecular Weight  | 193.23       |

**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 react            | ions_  |
| Hazardous Polymerization<br>Hazardous Reactions | No information available.<br>None under normal processing. |
| 10.4. Conditions to avoid                       | Incompatible products. Excess heat.                        |
| 10.5. Incompatible materials                    | None known.  |

#### 1,3-Benzodioxol-5-ylmethyl isothiocyanate

#### 10.6. Hazardous decomposition products

None under normal use conditions.

### **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>Category 4<br>Category 3  |
|---|---|
| (b) skin corrosion/irritation;                                | Category 1 C  |
| (c) serious eye damage/irritation;                            | Category 1  |
| (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   |
|   | There are no known carcinogenic chemicals in this product   |
| (g) reproductive toxicity;                                    | No data available   |
| (h) STOT-single exposure;                                     | No data available   |
| (i) STOT-repeated exposure;                                   | No data available   |
| Target Organs   | No information available.   |
| (j) aspiration hazard;  | No data available   |
| Symptoms / effects,both acute and delayed                     | Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.<br>Possible perforation of stomach or esophagus should be investigated. Ingestion causes<br>severe swelling, severe damage to the delicate tissue and danger of perforation. |
| 11.2. Information on other hazards                            |   |
| Endocrine Disrupting Properties                               | 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

### 1,3-Benzodioxol-5-ylmethyl isothiocyanate

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

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

<u>12.7. Other adverse effects</u> Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

| 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. Do not flush to sewer. Large amounts will affect pH and harm aquatic organisms. |

### **SECTION 14: TRANSPORT INFORMATION**

#### IMDG/IMO

| <u>14.1. UN number</u>                  | UN2922                                      |
|---|---|
| <u>14.2. UN proper shipping name</u>    | Corrosive liquid, toxic, n.o.s.             |
| Technical Shipping Name                 | (3,4-(Methylenedioxy)benzyl isothiocyanate) |
| <u>14.3. Transport hazard class(es)</u> | 8   |
| Subsidiary Hazard Class                 | 6.1   |
| 14.4. Packing group                     | III   |

1,3-Benzodioxol-5-ylmethyl isothiocyanate

ADR

| <u>14.1. UN number</u><br><u>14.2. UN proper shipping name</u><br>Technical Shipping Name<br><u>14.3. Transport hazard class(es)</u><br>Subsidiary Hazard Class<br><u>14.4. Packing group</u> | UN2922<br>Corrosive liquid, toxic, n.o.s.<br>(3,4-(Methylenedioxy)benzyl isothiocyanate)<br>8<br>6.1<br>III |
|---|---|
| IATA  |   |
| <u>14.1. UN number</u><br><u>14.2. UN proper shipping name</u><br>Technical Shipping Name<br><u>14.3. Transport hazard class(es)</u><br>Subsidiary Hazard Class<br><u>14.4. Packing group</u> | UN2922<br>Corrosive liquid, toxic, n.o.s.<br>(3,4-(Methylenedioxy)benzyl isothiocyanate)<br>8<br>6.1<br>III |
| 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 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  |
|--|-----------|--------|---------|---------------------------------|-------|------|------|-------|-------|
| 1,3-Benzodioxol-5-ylmethyl<br>isothiocyanate | 4430-47-1 | -      | -       | -                               | -     | -    | -    | -     | -     |
|  |           |        |         |                                 |       |      |      |       |       |
| Component                                    | CAS No    | TSCA   | notific | iventory<br>ation -<br>Inactive | DSL   | NDSL | AICS | NZIoC | PICCS |
| 1,3-Benzodioxol-5-ylmethyl<br>isothiocyanate | 4430-47-1 | -      | -       | -                               | -     | -    | -    | -     | -     |

Legend: X - Listed '-' - Not Listed 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 |   | REACH Regulation (EC<br>1907/2006) article 59 -<br>Candidate List of<br>Substances of Very High<br>Concern (SVHC) |
|--|-----------|---|---|---|
| 1,3-Benzodioxol-5-ylmethyl<br>isothiocyanate | 4430-47-1 | -   | - | -   |

| Component                  | CAS No    | Seveso III Directive (2012/18/EC) - Seveso III Directive (2012/18/EC) |   |
|----------------------------|-----------|---|---|
|                            |           | Qualifying Quantities for Major Accident                              | Qualifying Quantities for Safety Report |
|                            |           | Notification  | Requirements                            |
| 1,3-Benzodioxol-5-ylmethyl | 4430-47-1 | Not applicable  | Not applicable                          |

isothiocyanate

# 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

CAS Chamical Abstracts Sanvica

H312 - Harmful in contact with skin

H331 - Toxic if inhaled

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

#### Legend

TSCA United States Taxis Substances Control Act Section 8(b)

| CAS - Chemical Abstracts Service  | <b>ISCA</b> - United States Toxic Substances Control Act Section 8(b) |
|---|---|
|   | Inventory   |
| EINECS/ELINCS - European Inventory of Existing Commercial Chemical        | <b>DSL/NDSL</b> - Canadian Domestic Substances List/Non-Domestic      |
| Substances/EU List of Notified Chemical Substances                        | Substances List   |
| <b>PICCS</b> - Philippines Inventory of Chemicals and Chemical Substances | ENCS - Japanese Existing and New Chemical Substances                  |
| IECSC - Chinese Inventory of Existing Chemical Substances                 | AICS - Australian Inventory of Chemical Substances                    |
| KECL - Korean Existing and Evaluated Chemical Substances                  | NZIOC - New Zealand Inventory of Chemicals                            |
|   |   |
| WEL - Workplace Exposure Limit  | TWA - Time Weighted Average   |
| ACGIH - American Conference of Governmental Industrial Hygienists         | IARC - International Agency for Research on Cancer                    |
| DNEL - Derived No Effect Level  | Predicted No Effect Concentration (PNEC)                              |
| RPE - Respiratory Protective Equipment                                    | LD50 - Lethal Dose 50%  |
| LC50 - Lethal Concentration 50%   | EC50 - Effective Concentration 50%                                    |
| NOEC - No Observed Effect Concentration                                   | BOM Destition and Wishest Ostan al Mistar                             |
|   | <b>POW</b> - Partition coefficient Octanol:Water                      |
| PBT - Persistent, Bioaccumulative, Toxic                                  | <b>vPvB</b> - very Persistent, very Bioaccumulative                   |

Ships

Transport Association

ATE - Acute Toxicity Estimate

VOC - (Volatile Organic Compound)

#### 1,3-Benzodioxol-5-ylmethyl isothiocyanate

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ICAO/IATA - International Civil Aviation Organization/International Air

MARPOL - International Convention for the Prevention of Pollution from

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code OECD - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor

Key literature references and sources for data

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.

| Revision Date    | 01-Sep-2023                                    |
|------------------|--|
| Revision Summary | 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