

Revision Date 24-Aug-2023

Revision Number 6

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

| 1.1. Product identifier                                |   |
|--|---|
| Product Description:<br>Cat No. :<br>Molecular Formula | <u>4-[(4-Chlorophenyl)sulfonyl]-3-methylthiophene-2-carboxylic acid</u><br>KM01338DA; KM01338EA; KM01338SC; KM01338ZZ<br>C12 H9 CI O4 S2  |
| 1.2. Relevant identified uses of the                   | substance or mixture and uses advised against   |
| Recommended Use<br>Uses advised against                | Laboratory chemicals.<br>No Information available   |
| 1.3. Details of the supplier of the sa                 | fety 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 <b>US</b> call: 001-800-227-6701 / <b>Europe</b> call: +32 14 57 52 11<br>Emergency Number <b>US:</b> 001-201-796-7100 / <b>Europe:</b> +32 14 57 52 99<br><b>CHEMTREC</b> Tel. No. <b>US:</b> 001-800-424-9300 / <b>Europe:</b> 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

Acute oral toxicity

Category 4 (H302)

#### 4-[(4-Chlorophenyl)sulfonyl]-3-methylthiophene-2-carboxylic acid

Acute dermal 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 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled

#### **Precautionary Statements**

- P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting
- P312 Call a POISON CENTER or doctor if you feel unwell
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P337 + P313 If eye irritation persists: Get medical advice/attention
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P332 + P313 If skin irritation occurs: 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   |
|--|-------------|-------|----------|--|
| 4-[(4-Chlorophenyl)sulfonyl]-3-methylthioph<br>ene-2-carboxylic acid | 175137-65-2 |       | 97       | STOT SE 3 (H335)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Acute Tox. 4 (H302)<br>Acute Tox. 4 (H312)<br>Acute Tox. 4 (H332) |

Category 4 (H312) 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 2). 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

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Chlorine, Sulfur oxides, Hydrogen chloride gas.

#### 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**

4-[(4-Chlorophenyl)sulfonyl]-3-methylthiophene-2-carboxylic acid

#### 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. See Section 12 for additional Ecological Information.

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

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

4-[(4-Chlorophenyl)sulfonyl]-3-methylthiophene-2-carboxylic acid

No information available

#### Predicted No Effect Concentration (PNEC)

No information available.

#### 8.2. Exposure controls

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. 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 Gogg | gles (European standard - EN 166) |
|---------------------|-----------------------------------|
|---------------------|-----------------------------------|

Hand Protection Protective gloves

| Natural rubber        | Breakthrough time<br>See manufacturers<br>recommendations | Glove thickness<br>- | EU standard<br>EN 374 | Glove comments<br>(minimum requirement) |
|-----------------------|---|----------------------|-----------------------|---|
| Skin and body protect | ion 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.<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 |
|                            | No information available  |

Environmental exposure controls No information available.

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

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

| 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 | White<br>No information available<br>No data available<br>252 - 256 °C / 485.6 - 492.8 °F<br>No data available<br>No information available<br>No information available<br>No information available<br>No data available | Solid                             |
| Flash Point<br>Autoignition Temperature<br>Decomposition Temperature<br>pH   | No information available<br>No data available<br>No data available<br>No data available   | Method - No information available |
| Viscosity<br>Water Solubility<br>Solubility in other solvents  | Not applicable<br>Soluble in water<br>No information available  | Solid                             |
| Partition Coefficient (n-octanol/wat<br>Vapor Pressure   | er)<br>No data available  |                                   |
| Density / Specific Gravity<br>Bulk Density<br>Vapor Density<br>Particle characteristics  | No data available<br>No data available<br>Not applicable<br>No data available   | Solid                             |
| 9.2. Other information   |   |                                   |
| Molecular Formula<br>Molecular Weight<br>Evaporation Rate  | C12 H9 Cl O4 S2<br>316.78<br>Not applicable - Solid   |                                   |

# **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.   |
| 10.5. Incompatible materials                    | Bases. Strong oxidizing agents.  |
| 10.6. Hazardous decomposition pro               | oducts<br>Carbon monoxide (CO). Carbon dioxide (CO2). Chlorine. Sulfur oxides. Hydrogen chloride<br>gas. |

4-[(4-Chlorophenyl)sulfonyl]-3-methylthiophene-2-carboxylic acid

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# **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 4                                |
| (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   |
|  | 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   |
| Other Adverse Effects  | The toxicological properties have not been fully investigated.        |
| 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 product |

ocrine 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

### 4-[(4-Chlorophenyl)sulfonyl]-3-methylthiophene-2-carboxylic acid

| Ecotoxicity effects  | Contains no substances known to be hazardous to the environment or that are not            |
|--|--|
| Ecoloxicity enects   | degradable in waste water treatment plants.  |
|  |  |
|  |  |
|  |  |
| 12.2. Persistence and degradability                                |  |
| Persistence  | Soluble in water, Persistence is unlikely, based on information available.                 |
|  |  |
| 12.3. Bioaccumulative potential                                    | Bioaccumulation is unlikely  |
|  |  |
| <u>12.4. Mobility in soil</u>                                      | The product is water soluble, and may spread in water systems Will likely be mobile in the |
|  | environment due to its water solubility. Highly mobile in soils                            |
|  |  |
| 12.5. Results of PBT and vPvB<br>assessment                        | No data available for assessment.  |
| 12.6 Endeering discussing  |  |
| 12.6. Endocrine disrupting<br>properties                           |  |
| Endocrine Disruptor Information                                    | This product does not contain any known or suspected endocrine disruptors                  |
|  |  |
|  |  |
| <u>12.7. Other adverse effects</u><br>Persistent Organic Pollutant | This product does not contain any known or suspected substance                             |

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.  |

# **SECTION 14: TRANSPORT INFORMATION**

IMDG/IMO

Not regulated

14.1. UN number14.2. UN proper shipping name14.3. Transport hazard class(es)14.4. Packing group

<u>ADR</u>

Not regulated

4-[(4-Chlorophenyl)sulfonyl]-3-methylthiophene-2-carboxylic acid

| <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                    |
| <u>14.1. UN number</u><br><u>14.2. UN proper shipping name</u><br><u>14.3. Transport hazard class(es)</u><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

### **SECTION 15: REGULATORY INFORMATION**

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

Not applicable, packaged goods

#### 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 |
|------------------------------------|-------------|--------|--------|-----|-------|------|------|------|------|
| 4-[(4-Chlorophenyl)sulfonyl]-3-met | 175137-65-2 | -      | -      | -   | -     | -    | -    | -    | -    |
| hylthiophene-2-carboxylic acid     |             |        |        |     |       |      |      |      |      |

| Component  | CAS No      | TSCA | TSCA Inventory<br>notification -<br>Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|--|-------------|------|---|-----|------|------|-------|-------|
| 4-[(4-Chlorophenyl)sulfonyl]-3-met<br>hylthiophene-2-carboxylic acid | 175137-65-2 | -    | -   | -   | -    | -    | -     | -     |

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 | , <u> </u> | REACH Regulation (EC<br>1907/2006) article 59 -<br>Candidate List of<br>Substances of Very High<br>Concern (SVHC) |
|--|-------------|---|------------|---|
| 4-[(4-Chlorophenyl)sulfonyl]-3-meth<br>ylthiophene-2-carboxylic acid | 175137-65-2 | -   | -          | -   |

| 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 |
|--|--------|---|--|
| 4-[(4-Chlorophenyl)sulfonyl]-<br>3-methylthiophene-2-carbox<br>ylic acid |        | 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

4-[(4-Chlorophenyl)sulfonyl]-3-methylthiophene-2-carboxylic acid

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

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

- 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 Chemical<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 | 5  |
| 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   | POW - Partition coefficient Octanol:Water  |
| PBT - Persistent, Bioaccumulative, Toxic  | vPvB - very Persistent, very Bioaccumulative                                       |

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code ICAO/IATA - International Civil Aviation Organization/International Air Transport Association MARPOL - International Convention for the Prevention of Pollution from Ships

4-[(4-Chlorophenyl)sulfonyl]-3-methylthiophene-2-carboxylic acid

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

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

ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

**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 Revision Summary 24-Aug-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