

Creation Date 22-Oct-2010

Revision Date 23-Aug-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 2-Morpholinoaniline BTB02219DA; BTB02219EA; BTB02219R3; BTB02219ZZ 5585-33-1 C10 H14 N2 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

### 2-Morpholinoaniline

### Revision Date 23-Aug-2023

Acute oral toxicity Acute dermal toxicity Acute Inhalation Toxicity - Dusts and Mists Category 4 (H302) Category 4 (H312) Category 4 (H332)

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 H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled

Precautionary Statements

P280 - Wear protective gloves/protective clothing P264 - Wash face, hands and any exposed skin thoroughly after handling

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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

P312 - Call a POISON CENTER or doctor if you feel unwell

# 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              |
|---------------------|-----------|-------|----------|---|
| 2-Morpholinoaniline | 5585-33-1 |       | >=95     | Acute Tox. 4 (H302)<br>Acute Tox. 4 (H312)<br>Acute Tox. 4 (H332) |

Full text of Hazard Statements: see section 16

# **SECTION 4: FIRST AID MEASURES**

# 2-Morpholinoaniline

# 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 (CO2), dry chemical, 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.

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

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

# 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 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 equip<br>Eye Protection |   | Wear safety glasses with side shields (or goggles) (European standard - EN 166) |                       |   |  |  |  |
|---|---|---|-----------------------|---|--|--|--|
| Hand Protection                             | Protectiv   | Protective gloves   |                       |   |  |  |  |
|   | Breakthrough time<br>See manufacturers<br>recommendations | Glove thickness   | EU standard<br>EN 374 | Glove comments<br>(minimum requirement) |  |  |  |

Skin and body protection Long sleeved 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. 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 |

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 | Grey<br>No information available<br>No data available<br>98 - 99 °C / 208.4 - 210.2 °F<br>No data available | Measured |

| Boiling Point/Range                 | No information available |                                   |
|-------------------------------------|--------------------------|-----------------------------------|
| Flammability (liquid)               | Not applicable           | Solid                             |
| Flammability (solid,gas)            | No information available |                                   |
| Explosion Limits                    | No data available        |                                   |
| •                                   |                          |                                   |
| Flash Point                         | No information available | Method - No information available |
| Autoignition Temperature            | No data available        |                                   |
| Decomposition Temperature           | No data available        |                                   |
| pH .                                | No information available |                                   |
| Viscosity                           | Not applicable           | Solid                             |
| Water Solubility                    | No information available |                                   |
| Solubility in other solvents        | No information available |                                   |
| Partition Coefficient (n-octanol/wa | ter)                     |                                   |
| Vapor Pressure                      | No data available        |                                   |
| Density / Specific Gravity          | No data available        |                                   |
| Bulk Density                        | No data available        |                                   |
| Vapor Density                       | Not applicable           | Solid                             |
| Particle characteristics            | No data available        |                                   |
|                                     |                          |                                   |
| 9.2. Other information              |                          |                                   |
| <u>5.2. Other mormation</u>         |                          |                                   |
| Molecular Formula                   | C10 H14 N2 O             |                                   |
| Molecular Weight                    | 178.23                   |                                   |
| Evaporation Rate                    | Not applicable - Solid   |                                   |
|                                     |                          |                                   |

**SECTION 10: STABILITY AND REACTIVITY** 

information available

| 10.1. Reactivity                                | None known, based on information ava                       |
|---|--|
| 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                    | Strong oxidizing agents. Strong acids.                     |

# 10.6. Hazardous decomposition products

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

# **SECTION 11: TOXICOLOGICAL INFORMATION**

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

**Product Information** 

2-Morpholinoaniline

| (a) acute toxicity; |            |
|---------------------|------------|
| Oral                | Category 4 |
| Dermal              | Category 4 |

|   | SAFETT DATA SHEET   |                                  |
|---|---|----------------------------------|
| 2-Morpholinoaniline                       |   | Revision Date 23-Aug-2023        |
| Inhalation                                | Category 4  |                                  |
|   |   |                                  |
| (b) skin corrosion/irritation;            | No data available   |                                  |
|   |   |                                  |
| (c) serious eye damage/irritation;        | No data available   |                                  |
| (d) respiratory or skin sensitization;    |   |                                  |
| Respiratory<br>Skin                       | No data available<br>No data available  |                                  |
| Skii                                      |   |                                  |
| (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;                    | Not applicable<br>Solid   |                                  |
| Other Adverse Effects                     | The toxicological properties have not been fully investigated   |                                  |
| Symptoms / effects,both acute and         |   |                                  |
| delayed                                   |   |                                  |
| 11.2. Information on other hazards        |   |                                  |
|   |   |                                  |
| Endocrine Disrupting Properties           | Assess endocrine disrupting properties for human health. The known or suspected endocrine disruptors. | nis product does not contain any |
|   | · · · · · · · · · · · · · · · · · · ·   |                                  |
| 55  | ECTION 12: ECOLOGICAL INFORMATION   |                                  |
| 12.1. Toxicity                            |   |                                  |
| Ecotoxicity effects                       | Contains no substances known to be hazardous to the envir degradable in waste water treatment plants. | onment or that are not           |
|   |   |                                  |
|   |   |                                  |
|   |   |                                  |
| 12.2. Persistence and degradability       | INO 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><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 |

# SECTION 13: DISPOSAL CONSIDERATIONS

# 13.1. Waste treatment methodsWaste from Residues/Unused<br/>ProductsWaste is classified as hazardous. Dispose of in accordance with the European Directives<br/>on waste and hazardous waste. Dispose of in accordance with local regulations.Contaminated PackagingDispose 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<br/>application specific.Other InformationWaste codes should be assigned by the user based on the application for which the product<br/>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

ADR

Not regulated

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

<u>IATA</u>

Not regulated

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

Revision Date 23-Aug-2023

2-Morpholinoaniline

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required.

14.7. Maritime transport in bulk Not applicable, packaged goods

according to IMO instruments

# **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  |
|---------------------|-----------|--------|---------|--------------------------------|-------|------|------|-------|-------|
| 2-Morpholinoaniline | 5585-33-1 | -      | -       | -                              | -     | -    | -    | -     | -     |
|                     |           |        |         |                                |       |      |      |       |       |
| Component           | CAS No    | TSCA   | notific | ventory<br>ation -<br>Inactive | DSL   | NDSL | AICS | NZIoC | PICCS |
| 2-Morpholinoaniline | 5585-33-1 | -      | -       | -                              | -     | -    | -    | -     | -     |

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 | 5 | REACH Regulation (EC<br>1907/2006) article 59 -<br>Candidate List of<br>Substances of Very High<br>Concern (SVHC) |
|---------------------|-----------|---|---|---|
| 2-Morpholinoaniline | 5585-33-1 | -   | - | -   |

| Component           | CAS No    | Seveso III Directive (2012/18/EC) -             | Seveso III Directive (2012/18/EC) -     |
|---------------------|-----------|---|---|
|                     |           | <b>Qualifying Quantities for Major Accident</b> | Qualifying Quantities for Safety Report |
|                     |           | Notification                                    | Requirements                            |
| 2-Morpholinoaniline | 5585-33-1 | 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 H312 - Harmful in contact with skin H332 - Harmful if inhaled

### Legend

| CAS - Chemical Abstracts Service<br>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   | <ul> <li>TSCA - United States Toxic Substances Control Act Section 8(b)<br/>Inventory</li> <li>DSL/NDSL - Canadian Domestic Substances List/Non-Domestic<br/>Substances List</li> <li>ENCS - Japanese Existing and New Chemical Substances</li> <li>AICS - Australian Inventory of Chemical Substances</li> <li>NZIOC - New Zealand Inventory of Chemicals</li> </ul> |
|---|---|
| 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<br>https://echa.europa.eu/information-on-chemicals<br>Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, F | 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)   |

### **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.

| Creation Date    | 22-Oct-2010                                    |
|------------------|--|
| Revision Date    | 23-Aug-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