

according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended

Creation Date 27-Sep-2010

Revision Date 19-Oct-2023

**Revision Number** 14

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

#### 1.1. Product identifier

| Product Description:      | Benzaldehyde   |
|---------------------------|--|
| Cat No. :                 | B/1400/PB08, B/1400/PB17   |
| Synonyms                  | Benzenecarboxaldehyde; artificial almond oil; benzene carbaldehyde |
| Index No                  | 605-012-00-5   |
| CAS No                    | 100-52-7   |
| EC No                     | 202-860-4  |
| Molecular Formula         | C7 H6 O  |
| REACH registration number | -  |

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

| Recommended Use<br>Sector of use | Laboratory chemicals.<br>SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites |
|----------------------------------|---|
| Product category                 | PC21 - Laboratory chemicals   |
| Process categories               | PROC15 - Use as a laboratory reagent  |
| Environmental release category   | ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)                       |
| Uses advised against             | No Information available  |

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

#### UK entity/business name Fisher Scientific UK Bishop Meadow Road, Loughborough, Leicestershire LE11 5RG, 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

Tel: 01509 231166 Chemtrec US: (800) 424-9300 Chemtrec EU: 001-703-527-3887

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

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

CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

#### Benzaldehyde

#### Physical hazards

Based on available data, the classification criteria are not met

#### Health hazards

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

#### **Environmental hazards**

Chronic aquatic toxicity

Category 4 (H302) Category 4 (H332) Category 2 (H315) Category 2 (H319) Category 1B (H360D) Category 3 (H335)

Category 2 (H411)

Full text of Hazard Statements: see section 16

#### 2.2. Label elements



Signal Word

Danger

#### **Hazard Statements**

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H360D May damage the unborn child
- H411 Toxic to aquatic life with long lasting effects
- H302 + H332 Harmful if swallowed or if inhaled
- Combustible liquid

#### **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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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

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

#### Additional EU labelling

Restricted to professional users

#### 2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB) Prolonged skin contact may defat the skin and produce dermatitis Toxicity to Soil Dwelling Organisms

-

#### Benzaldehyde

Toxic to terrestrial vertebrates

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 - According to<br>GB-CLP Regulations UK SI 2019/720 and<br>UK SI 2020/1567   |
|--------------|----------|-------------------|----------|---|
| Benzaldehyde | 100-52-7 | EEC No. 202-860-4 | <=100    | Acute Tox 4 (H302)<br>Acute Tox 4 (H332)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H335)<br>Repr. 1B (H360D)<br>Aquatic Chronic 2 (H411) |

| REACH | registration | number |
|-------|--------------|--------|
|       |              |        |

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.   |
| 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. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting                                 |
| 4.3. Indication of any immediate me | edical attention and special treatment needed  |
| Notes to Physician                  | Treat symptomatically.   |
|                                     | SECTION 5: FIREFIGHTING MEASURES   |

#### 5.1. Extinguishing media

#### Benzaldehyde

#### Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

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

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

Combustible material. Containers may explode when heated.

#### Hazardous Combustion Products

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

Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition.

#### 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. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition.

#### 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. Keep away from heat, sparks and flame. Keep under nitrogen.

#### Technical Rules for Hazardous Substances (TRGS) 510 Class 6.1C 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 List source(s):

regulatory bodies

**Biological limit values** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific

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

See table for values

| Component                       | Acute effects local | Acute effects   | Chronic effects local | Chronic effects |
|---------------------------------|---------------------|-----------------|-----------------------|-----------------|
|                                 | (Oral)              | systemic (Oral) | (Oral)                | systemic (Oral) |
| Benzaldehyde<br>100-52-7(<=100) |                     |                 |                       | 25mg/kg/d       |

| Component       | Acute effects local<br>(Dermal) | Acute effects<br>systemic (Dermal) | Chronic effects local<br>(Dermal) | Chronic effects systemic (Dermal) |
|-----------------|---------------------------------|------------------------------------|-----------------------------------|-----------------------------------|
| Benzaldehyde    | DNEL = 1% in mixture            |                                    |                                   | DNEL = 1.14mg/kg                  |
| 100-52-7(<=100) | (weight basis)                  |                                    |                                   | bw/day                            |

| Component                          | Acute effects local<br>(Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local<br>(Inhalation) | Chronic effects systemic (Inhalation) |
|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|
| Benzaldehyde<br>100-52-7 ( <=100 ) |                                     |                                     | DNEL = 9.8mg/m <sup>3</sup>           | DNEL = 9.8mg/m <sup>3</sup>           |

#### Predicted No Effect Concentration (PNEC)

See values below.

| Component                          | Fresh water  | Fresh water<br>sediment | Water Intermittent | Microorganisms in<br>sewage treatment | , |
|------------------------------------|--------------|-------------------------|--------------------|---------------------------------------|---|
| Benzaldehyde<br>100-52-7 ( <=100 ) | 0.00024 mg/l | 0.0221 mg/kg            | 0.0107 mg/l        |                                       |   |

#### 8.2. Exposure controls

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. 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

Goggles (European standard - EN 166)

| Hand Protection   | Protect   | ive 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 Wear a  | ppropriate protective g                                  | ploves and clothing to p | prevent skin exposure.  |
| (Refer to manufacturer/s<br>Ensure gloves are suital                  | ructions regarding perr<br>supplier for information<br>ble for the task: Chemi<br>o take into consideration | )<br>cal compatability, Dext<br>on the specific local co | erity, Operational cond  | ovided by the supplier of the gloves.<br>ditions, User susceptibility, e.g.<br>he product is used, such as the danger |
| Respiratory Protec  | approp<br>To prot   | riate certified respirato                                | rs.                      | exposure limit they must use<br>ent must be the correct fit and be used   |
| Large scale/emergenc  | are exc   | ceeded or if irritation or<br>mended Filter type:        | other symptoms are e     | approved respirator if exposure limits<br>experienced<br>pours filter Type A Brown conforming to                      |
| Small scale/Laboratory  | limits a<br><b>Recon</b><br>141   | re exceeded or if irritation<br>imended half mask:-      | tion or other symptoms   | ; or; Half mask: EN140; plus filter, EN   |
| Environmental exposu  | ire controls Preven<br>system   |  | g drains. Do not allow r | naterial to contaminate ground water  |

### 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       | Clear<br>bitter almonds<br>No data available<br>-26 °C / -14.8 °F<br>No data available<br>179 °C / 354.2 °F<br>Combustible liquid<br>Not applicable<br>Lower 1.4 Vol% | On basi<br>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 | Upper 8.5 Vol%<br>64 °C / 147.2 °F<br>190 °C / 374 °F<br>No data available<br>5.9<br>No data available<br>6.95 g/L @ 20 °C<br>No information available<br>er)         | Method            |

On basis of test data Liquid

Method - No information available

Benzaldehyde

#### Revision Date 19-Oct-2023

#### Benzaldehyde

| Component                  |
|----------------------------|
| Benzaldehyde               |
| Vapor Pressure             |
| Density / Specific Gravity |
| Bulk Density               |
| Vapor Density              |
| Particle characteristics   |
|                            |

#### 9.2. Other information

Molecular Formula Molecular Weight Explosive Properties log Pow 1.4 No data available 1.043 Not applicable No data available Not applicable (liquid)

Liquid (Air = 1.0)

C7 H6 O 106.12 explosive air/vapour mixtures possible

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

| 10.1. Reactivity                                | None known, based on information available  |
|---|---|
| 10.2. Chemical stability                        | Light sensitive, Air sensitive.   |
| 10.3. Possibility of hazardous react            | ions  |
| Hazardous Polymerization<br>Hazardous Reactions | Hazardous polymerization does not occur.<br>None under normal processing.   |
| 10.4. Conditions to avoid                       | Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to air. Exposure to light. |
| 10.5. Incompatible materials                    | Strong oxidizing agents. Strong reducing agents. Strong bases. oxygen. Aluminium. copper.<br>Copper alloys. Alkali metals.                |

#### 10.6. Hazardous decomposition products

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

| <b>SECTION 1</b> <sup>4</sup> | 1: TOXICOL | OGICAL I | INFORMATION |
|-------------------------------|------------|----------|-------------|
|-------------------------------|------------|----------|-------------|

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

#### Product Information

(a) acute toxicity; Oral

> Dermal Inhalation

Category 4 Based on available data, the classification criteria are not met Category 4

| Component    | LD50 Oral               | LD50 Dermal                | LC50 Inhalation |
|--------------|-------------------------|----------------------------|-----------------|
| Benzaldehyde | LD50 = 1292 mg/kg (Rat) | LD50 > 1250 mg/kg (Rabbit) | -               |

(b) skin corrosion/irritation; Category 2

| (c) serious eye damage/irritation;                            | Category 2   |
|---|--|
| (d) respiratory or skin sensitization;<br>Respiratory<br>Skin | Based on available data, the classification criteria are not met<br>Based on available data, the classification criteria are not met |
| (e) germ cell mutagenicity;                                   | Based on available data, the classification criteria are not met   |
|   | Not mutagenic in AMES Test   |
| (f) carcinogenicity;  | Based on available data, the classification criteria are not met   |
|   | There are no known carcinogenic chemicals in this product  |
|   |  |
| (g) reproductive toxicity;                                    | Category 1B  |
| (h) STOT-single exposure;                                     | Category 3   |
| Results / Target organs                                       | Respiratory system.  |
| (i) STOT-repeated exposure;                                   | Based on available data, the classification criteria are not met   |
| Target Organs   | None known.  |
| (j) aspiration hazard;  | Based on available data, the classification criteria are not met   |
|   |  |
| Other Adverse Effects   | Tumorigenic effects have been reported in experimental animals.  |
| Symptoms / effects,both acute and<br>delayed                  | Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.   |
|   |  |

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 Ecotoxicity effects

Benzaldehyde

The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Component    | Freshwater Fish                | Water Flea | Freshwater Algae |
|--------------|--------------------------------|------------|------------------|
| Benzaldehyde | LC50: 6.8 - 8.53 mg/L, 96h     |            |                  |
|              | flow-through (Pimephales       |            |                  |
|              | promelas)                      |            |                  |
|              | LC50: 10.6 - 11.8 mg/L, 96h    |            |                  |
|              | flow-through (Oncorhynchus     |            |                  |
|              | mykiss)                        |            |                  |
|              | LC50: = 12.69 mg/L, 96h static |            |                  |
|              | (Oncorhynchus mykiss)          |            |                  |
|              | LC50: 0.8 - 1.44 mg/L, 96h     |            |                  |
|              | flow-through (Lepomis          |            |                  |
|              | macrochirus)                   |            |                  |
|              | LC50: = 7.5 mg/L, 96h static   |            |                  |
|              | (Lepomis macrochirus)          |            |                  |

Revision Date 19-Oct-2023

| <br> | <br> |
|------|------|
|      |      |

| <u>12.2. Persistence and degradability</u><br>Persistence<br>Degradation in sewage<br>treatment plant | <ul> <li>Readily biodegradable</li> <li>Persistence is unlikely, Soluble in water, based on information available.</li> <li>Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.</li> </ul> |                               |  |  |  |
|---|--|-------------------------------|--|--|--|
| 12.3. Bioaccumulative potential   | Bioaccumulation is unlikely  |                               |  |  |  |
| Component   | log Pow  | Bioconcentration factor (BCF) |  |  |  |
| Benzaldehyde  | 1.4  | No data available             |  |  |  |
| <u>12.4. Mobility in soil</u><br><u>12.5. Results of PBT and vPvB</u>                                 | The product is water soluble, and may spread<br>environment due to its water solubility. Highly<br>Substance is not considered persistent, bioac   |                               |  |  |  |
| assessment  | and very bioaccumulative (vPvB).   |                               |  |  |  |
| <u>12.6. Endocrine disrupting</u><br>properties<br>Endocrine Disruptor Information                    | This product does not contain any known or s   | uspected 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 s<br>This product does not contain any known or s   |                               |  |  |  |

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

#### 13.1. Waste treatment methods

Benzaldehyde

| 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                      | Do not flush to sewer. 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 let this chemical enter the environment. |

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

#### IMDG/IMO

| 14.1. UN number_                 | UN1990       |
|----------------------------------|--------------|
| 14.2. UN proper shipping name    | Benzaldehyde |
| 14.3. Transport hazard class(es) | 9            |
| 14.4. Packing group              | III          |

Benzaldehyde

<u>ADR</u>

| <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><u>14.4. Packing group</u> | UN1990<br>Benzaldehyde<br>9<br>III   |
|---|--|
| IATA  |  |
| <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                      | UN1990<br>Benzaldehyde<br>9<br>III   |
| 14.5. Environmental hazards   | Dangerous for the environment<br>Product is a marine pollutant according to the criteria set by IMDG/IMO |
| 14.6. Special precautions for user  | No special precautions required.   |
| 14.7. Maritime transport in bulk<br>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  |
|--------------|----------|-----------|---|-----|-------|------|----------|-------|-------|
| Benzaldehyde | 100-52-7 | 202-860-4 | -   | -   | Х     | Х    | KE-02713 | Х     | Х     |
|              |          |           |   |     |       |      |          |       |       |
| Component    | CAS No   | TSCA      | TSCA Inventory<br>notification -<br>Active-Inactive |     | DSL   | NDSL | AICS     | NZIoC | PICCS |
| Benzaldehyde | 100-52-7 | Х         | ACTIVE  |     | Х     | -    | Х        | Х     | Х     |

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) |
|--------------|----------|---|-----------------------|---|
| Benzaldehyde | 100-52-7 | -   | -                     | -   |

#### Seveso III Directive (2012/18/EC)

| 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                            |
| Benzaldehyde | 100-52-7 | 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 .

Take note of Directive 94/33/EC on the protection of young people at work Take note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work

#### **National Regulations**

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

WGK Classification

See table for values

| Component    | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|--------------|---------------------------------------|-------------------------|
| Benzaldehyde | WGK1                                  |                         |

| Component                       | Switzerland - Ordinance on the<br>Reduction of Risk from<br>handling of hazardous<br>substances preparation (SR<br>814.81) | Switzerland - Ordinance on<br>Incentive Taxes on Volatile<br>Organic Compounds (OVOC) | Switzerland - Ordinance of the<br>Rotterdam Convention on the<br>Prior Informed Consent<br>Procedure |
|---------------------------------|--|---|--|
| Benzaldehyde<br>100-52-7(<=100) | Prohibited and Restricted<br>Substances  |   |  |

#### 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

H332 - Harmful if inhaled

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H360D - May damage the unborn child

H411 - Toxic to aquatic life with long lasting effects

#### Legend

|   | CA - United States Toxic Substances Control Act Section 8(b) entory  |
|---|--|
| EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL<br>Substances/EU List of Notified Chemical Substances Subs | _/NDSL - Canadian Domestic Substances List/Non-Domestic  |
|   | CS - Japanese Existing and New Chemical Substances   |
|   | <ul> <li>S - Australian Inventory of Chemical Substances</li> <li>OC - New Zealand Inventory of Chemicals</li> </ul> |

#### Revision Date 19-Oct-2023

| 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  |
| <b>PBT</b> - Persistent, Bioaccumulative, Toxic  | vPvB - very Persistent, very Bioaccumulative   |
| <b>ADR</b> - European Agreement Concerning the International Carriage of Dangerous Goods by Road | ICAO/IATA - International Civil Aviation Organization/International Air<br>Transport Association |
| IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code       | MARPOL - International Convention for the Prevention of Pollution from Ships                     |
| <b>OECD</b> - Organisation for Economic Co-operation and Development                             | ATE - Acute Toxicity Estimate  |
| BCF - Bioconcentration factor  | VOC - (Volatile Organic Compound)  |
| 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**

Benzaldehyde

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    | 27-Sep-2010                               |
|------------------|---|
| Revision Date    | 19-Oct-2023                               |
| Revision Summary | SDS sections updated, 2, 3, 8, 9, 11, 16. |

# This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.

. 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**