

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

Revision Date 27-Sep-2023

Revision Number 6

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

#### 1.1. Product identifier

Product Description: Cat No. : Synonyms CAS No Molecular Formula 2;3-Pentanedione 221470000; 221470250; 221471000; 221475000 Acetylpropionyl 600-14-6 C5 H8 O2

#### 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** 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

begel.sdsdesk@thermofisher.com

E-mail address

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

#### Physical hazards

Flammable liquids

#### Health hazards

Serious Eye Damage/Eye Irritation

Category 1 (H318)

Category 2 (H225)

#### 2,3-Pentanedione

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Category 1 (H317)

Category 2 (H373)

Skin Sensitization

Specific target organ toxicity - (repeated 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

Danger

#### Hazard Statements

H225 - Highly flammable liquid and vapor

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

#### **Precautionary Statements**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

#### 2.3. Other hazards

No information available 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 |
|------------------|----------|-------------------|----------|---|
| 2,3-Pentanedione | 600-14-6 | EEC No. 209-984-8 | 97       | Flam. Liq. 2 (H225)<br>Skin Sens. 1 (H317)<br>Eye Dam. 1 (H318)<br>STOT RE 2 (H373)           |

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. . Causes severe eye damage. May cause allergic skin reaction. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

#### 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

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water mist may be used to cool closed containers. Water mist may be used to cool closed containers.

#### Extinguishing media which must not be used for safety reasons Water may be ineffective.

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

Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

#### 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

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

#### 6.2. Environmental precautions

Should not be released into the environment.

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

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

#### 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. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

#### **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 place. Keep container tightly closed. Keep away from heat, sparks and flame. Refrigerator/flammables. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed in a dry and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510 Class 3 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):

#### 2,3-Pentanedione

#### **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

Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

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

| Personal protective equipn<br>Eye Protection   |  |                      |                       |   |  |  |
|--|--|----------------------|-----------------------|---|--|--|
| Hand Protection  | Hand Protection Protective gloves                      |                      |                       |   |  |  |
| Nitrile rubber Se  | reakthrough time<br>ee manufacturers<br>ecommendations | Glove thickness<br>- | EU standard<br>EN 374 | Glove comments<br>(minimum requirement) |  |  |
| Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure. |  |                      |                       |   |  |  |

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. <b>Recommended half mask:-</b> Valve filtering: EN405; or; Half mask: EN140; plus filter, EN  |

2,3-Pentanedione

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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                            | Yellow                        |                                   |
| Odor                                  | Odorless                      |                                   |
| Odor Threshold                        | No data available             |                                   |
| Melting Point/Range                   | -52 °C / -61.6 °F             |                                   |
| Softening Point                       | No data available             |                                   |
| Boiling Point/Range                   | 110 - 112 °C / 230 - 233.6 °F |                                   |
| Flammability (liquid)                 | Highly flammable              | On basis of test data             |
| Flammability (solid,gas)              | Not applicable                | Liquid                            |
| Explosion Limits                      | Lower 1.8                     | 1                                 |
|                                       | Upper 10.9                    |                                   |
| Flash Point                           | 18 °C / 64.4 °F               | Method - No information available |
| Autoignition Temperature              | 265 °C / 509 °F               |                                   |
| Decomposition Temperature             | > 100°C                       |                                   |
| pH                                    | 4                             |                                   |
| Viscosity                             | No data available             |                                   |
| Water Solubility                      | 60 g/L (15°C)                 |                                   |
| Solubility in other solvents          | No information available      |                                   |
| Partition Coefficient (n-octanol/wate | er)                           |                                   |
| Vapor Pressure                        | 28.5 hPa @ 20 °C              |                                   |
| Density / Specific Gravity            | 0.958                         |                                   |
| Bulk Density                          | Not applicable                | Liquid                            |
| Vapor Density                         | 3.45                          | (Air = 1.0)                       |
| Particle characteristics              | Not applicable (liquid)       | · /                               |
|                                       |                               |                                   |
|                                       |                               |                                   |

Molecular FormulaC5 H8 O2Molecular Weight100.12Explosive PropertiesVapors may form explosive mixtures with air

# **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 | Hazardous polymerization does not occur.<br>None under normal processing.                |
| 10.4. Conditions to avoid                       | Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. |

9.2. Other information

#### 2,3-Pentanedione

#### 10.5. Incompatible materials

Strong bases. Acids. Bases. Strong oxidizing agents. Metals. Reducing Agent.

#### 10.6. Hazardous decomposition products

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** 

(a) acute toxicity;

Oral Dermal Inhalation Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met

| Component        | LD50 Oral           | LD50 Dermal                | LC50 Inhalation |
|------------------|---------------------|----------------------------|-----------------|
| 2,3-Pentanedione | LD50 = 3 g/kg (Rat) | LD50 > 2000 mg/kg (Rabbit) | -               |
|                  |                     |                            |                 |

| (b) skin corrosion/irritation;                               | No data available   |
|--|---|
| (c) serious eye damage/irritation;                           | Category 1  |
| (d) respiratory or skin sensitization<br>Respiratory<br>Skin | ;<br>No data available<br>Category 1<br>May cause sensitization by skin contact   |
| (e) germ cell mutagenicity;                                  | No data available   |
| (f) carcinogenicity;   | No data available<br>There are no known carcinogenic chemicals in this product  |
| (g) reproductive toxicity;                                   | No data available   |
| (h) STOT-single exposure;                                    | No data available   |
| (i) STOT-repeated exposure;                                  | Category 2  |
| Target Organs  | No information available.   |
| (j) aspiration hazard;                                       | No data available   |
| Symptoms / effects,both acute and delayed                    | Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing. |

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.  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| SE   | SECTION 12: ECOLOGICAL INFORMATION   |  |  |  |  |  |  |
| 12.1. Toxicity_<br>Ecotoxicity effects   | Do not empty into drains   |  |  |  |  |  |  |
| 12.2. Persistence and degradability<br>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.  |  |  |  |  |  |  |
| <u>12.6. Endocrine disrupting</u><br>properties<br>Endocrine Disruptor Information       | This product does not contain any known or suspected endocrine disruptors  |  |  |  |  |  |  |
| 12.7. Other adverse effects<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   |  |  |  |  |  |  |
| 55   | CTION 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. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition. |  |  |  |  |  |  |
| 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 flush to sewer. Can be landfilled or incinerated, when in compliance with local regulations. Do not empty into drains.        |  |  |  |  |  |  |

# **SECTION 14: TRANSPORT INFORMATION**

#### IMDG/IMO

| <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><u>14.4. Packing group</u> | UN1224<br>KETONES, LIQUID, N.O.S.<br>(2,3-PENTANEDIONE)<br>3<br>II  |
|--|---|
| 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><u>14.4. Packing group</u> | UN1224<br>KETONES, LIQUID, N.O.S.<br>(2,3-PENTANEDIONE)<br>3<br>II  |
| 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><u>14.4. Packing group</u> | UN1224<br>KETONES, LIQUID, N.O.S.*<br>(2,3-PENTANEDIONE)<br>3<br>II |
| 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

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

| Component        | CAS No   | EINECS    | ELINCS  | NLP                            | IECSC | TCSI | KECL     | ENCS  | ISHL  |
|------------------|----------|-----------|---------|--------------------------------|-------|------|----------|-------|-------|
| 2,3-Pentanedione | 600-14-6 | 209-984-8 | -       | -                              | Х     | Х    | KE-27992 | Х     | Х     |
|                  |          |           |         |                                |       |      |          |       |       |
| Component        | CAS No   | TSCA      | notific | ventory<br>ation -<br>Inactive | DSL   | NDSL | AICS     | NZIoC | PICCS |
| 2,3-Pentanedione | 600-14-6 | Х         | ACT     | ΓIVE                           | 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 |  | REACH (1907/2006) -<br>Annex XIV - Substances<br>Subject to Authorization | J J. | REACH Regulation (EC<br>1907/2006) article 59 -<br>Candidate List of<br>Substances of Very High<br>Concern (SVHC) |
|-----------|--|---|------|---|
|-----------|--|---|------|---|



2,3-Pentanedione

| 2,3-Pentanedione | 600-14-6 | - | - | - |
|------------------|----------|---|---|---|

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

| ſ | Component        | CAS No   | Seveso III Directive (2012/18/EC) - Seveso III Directive (2012/1 |   |
|---|------------------|----------|--|---|
|   | -                |          | Qualifying Quantities for Major Accident                         | Qualifying Quantities for Safety Report |
|   |                  |          | Notification   | Requirements                            |
| Γ | 2,3-Pentanedione | 600-14-6 | 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

L

See table for values

| Component        | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|------------------|---------------------------------------|-------------------------|
| 2,3-Pentanedione | WGK1                                  |                         |

#### 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

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

H225 - Highly flammable liquid and vapor

#### Legend

| CAS - Chemical Abstracts Service                          | <b>TSCA</b> - United States Toxic Substances Control Act Section 8(b)<br>Inventory   |
|---|--|
| IECSC - Chinese Inventory of Existing Chemical Substances | DSL/NDSL - Canadian Domestic Substances List/Non-DomesticSubstances ListENCS - Japanese Existing and New Chemical SubstancesAICS - Australian Inventory of Chemical SubstancesNZIOC - New Zealand Inventory of Chemicals |

#### 2,3-Pentanedione

| 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  |
| ADR - European Agreement Concerning the International Carriage of                                 | ICAO/IATA - International Civil Aviation Organization/International Air             |
| Dangerous Goods by Road   | Transport Association   |
| <b>IMO/IMDG</b> - International Maritime Organization/International Maritime Dangerous Goods Code | <b>MARPOL</b> - 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, I                                   | 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    | 27-Sep-2023           |
|------------------|-----------------------|
| Revision Summary | SDS sections updated. |

# 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**