

Creation Date 01-Jun-2010

Revision Date 29-Sep-2023

Revision Number 6

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

### 1.1. Product identifier

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| Product Description: | <b>1,3-Dioxolane, stabilized</b>                             |
| Cat No. :            | <b>299480000; 299480010; 299480025; 299480250; 299480500</b> |
| Synonyms             | 1,3-Dioxacyclopentane                                        |
| Index No             | 605-017-00-2                                                 |
| CAS No               | 646-06-0                                                     |
| EC No                | 211-463-5                                                    |
| Molecular Formula    | C3 H6 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 Pharmaceuticaaan 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

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

#### Physical hazards

Flammable liquids

Category 2 (H225)

#### Health hazards

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Serious Eye Damage/Eye Irritation

Category 2 (H319)

## 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

H319 - Causes serious eye irritation

## Precautionary Statements

P280 - Wear eye protection/ face protection

P264 - Wash face, hands and any exposed skin thoroughly after handling

P337 + P313 - If eye irritation persists: Get medical advice/attention

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

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

## 2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

Contains a substance on the National Authorities Endocrine Disruptor Lists

Contains a known or suspected endocrine disruptor

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

| Component                  | CAS No   | EC No             | Weight %    | GHS Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 |
|----------------------------|----------|-------------------|-------------|-----------------------------------------------------------------------------------------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | EEC No. 204-881-4 | 0.006-0.008 | Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)                                      |
| 1,3-Dioxolane              | 646-06-0 | EEC No. 211-463-5 | >99         | Flam. Liq. 2 (H225)<br>Eye Irrit. 2 (H319)                                              |

| Component                  | Specific concentration limits (SCL's) | M-Factor | Component notes |
|----------------------------|---------------------------------------|----------|-----------------|
| 2,6-Di-tert-butyl-p-cresol | -                                     | 1        | -               |

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Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|                                           |                                                                                                                                                  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Advice</b>                     | If symptoms persist, call a physician.                                                                                                           |
| <b>Eye Contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.                                  |
| <b>Skin Contact</b>                       | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.                                |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water.                                                                                     |
| <b>Inhalation</b>                         | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.                                     |
| <b>Self-Protection of the First Aider</b> | 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

. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

### 4.3. Indication of any immediate medical attention and special treatment needed

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. Symptoms may be delayed. |
|---------------------------|-------------------------------------------------|

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Water spray, carbon dioxide (CO<sub>2</sub>), 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

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

#### 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.

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## 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

Should not be released into the environment.

### 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. 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. Avoid ingestion and inhalation. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. 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 containers tightly closed in a dry, cool and well-ventilated place. Flammables area. Keep away from heat, sparks and flame.

**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): **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. **IRE** - 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

| Component | The United Kingdom | European Union | Ireland |
|-----------|--------------------|----------------|---------|
|-----------|--------------------|----------------|---------|

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|                            |                                                                     |  |                                                                    |
|----------------------------|---------------------------------------------------------------------|--|--------------------------------------------------------------------|
| 2,6-Di-tert-butyl-p-cresol | STEL: 30 mg/m <sup>3</sup> 15 min<br>TWA: 10 mg/m <sup>3</sup> 8 hr |  | TWA: 2 mg/m <sup>3</sup> 8 hr.<br>STEL: 6 mg/m <sup>3</sup> 15 min |
| 1,3-Dioxolane              |                                                                     |  | TWA: 20 ppm 8 hr.<br>STEL: 60 ppm 15 min                           |

## 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)

See table for values

| Component                                              | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|--------------------------------------------------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 ( 0.006-0.008 ) |                              |                                 |                                | DNEL = 0.5mg/kg<br>bw/day         |
| 1,3-Dioxolane<br>646-06-0 ( >99 )                      |                              |                                 |                                | DNEL = 1.18mg/kg<br>bw/day        |

| Component                                              | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|--------------------------------------------------------|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 ( 0.006-0.008 ) |                                  |                                     |                                    | DNEL = 3.5mg/m <sup>3</sup>           |
| 1,3-Dioxolane<br>646-06-0 ( >99 )                      |                                  |                                     |                                    | DNEL = 3.306mg/m <sup>3</sup>         |

## Predicted No Effect Concentration (PNEC)

See values below.

| Component                                              | Fresh water      | Fresh water sediment            | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture)           |
|--------------------------------------------------------|------------------|---------------------------------|--------------------|------------------------------------|------------------------------|
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 ( 0.006-0.008 ) | PNEC = 0.199µg/L | PNEC = 99.6µg/kg<br>sediment dw | PNEC = 1.99µg/L    | PNEC = 0.17mg/L                    | PNEC = 47.69µg/kg<br>soil dw |
| 1,3-Dioxolane<br>646-06-0 ( >99 )                      | PNEC = 19.7mg/L  | PNEC = 77.7mg/kg<br>sediment dw | PNEC = 0.95mg/L    | PNEC = 1mg/L                       | PNEC = 2.62mg/kg<br>soil dw  |

| Component                                              | Marine water      | Marine water sediment           | Marine water intermittent | Food chain               | Air |
|--------------------------------------------------------|-------------------|---------------------------------|---------------------------|--------------------------|-----|
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 ( 0.006-0.008 ) | PNEC = 0.0199µg/L | PNEC = 9.96µg/kg<br>sediment dw |                           | PNEC = 8.33mg/kg<br>food |     |
| 1,3-Dioxolane<br>646-06-0 ( >99 )                      | PNEC = 1.97mg/L   | PNEC = 7.77mg/kg<br>sediment dw |                           |                          |     |

## 8.2. Exposure controls

### Engineering Measures

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

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

Protective gloves

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| Glove material | Breakthrough time                 | Glove thickness | EU standard | Glove comments        |
|----------------|-----------------------------------|-----------------|-------------|-----------------------|
| Viton (R)      | See manufacturers recommendations | -               | EN 374      | (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** No protective equipment is needed under normal use conditions.

**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

**Small scale/Laboratory use** Maintain adequate ventilation

**Environmental exposure controls** No information available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

|                                                |                                                                   |                                          |
|------------------------------------------------|-------------------------------------------------------------------|------------------------------------------|
| <b>Physical State</b>                          | Liquid                                                            |                                          |
| <b>Appearance</b>                              | Colorless                                                         |                                          |
| <b>Odor</b>                                    | No information available                                          |                                          |
| <b>Odor Threshold</b>                          | No data available                                                 |                                          |
| <b>Melting Point/Range</b>                     | -95 °C / -139 °F                                                  |                                          |
| <b>Softening Point</b>                         | No data available                                                 |                                          |
| <b>Boiling Point/Range</b>                     | 74 - 75 °C / 165.2 - 167 °F                                       | @ 760 mmHg                               |
| <b>Flammability (liquid)</b>                   | Highly flammable                                                  | On basis of test data                    |
| <b>Flammability (solid,gas)</b>                | Not applicable                                                    | Liquid                                   |
| <b>Explosion Limits</b>                        | No data available <b>Lower</b> 2.1 vol%<br><b>Upper</b> 20.5 vol% |                                          |
| <b>Flash Point</b>                             | -6 °C / 21.2 °F                                                   | <b>Method -</b> No information available |
| <b>Autoignition Temperature</b>                | 274 °C / 525.2 °F                                                 |                                          |
| <b>Decomposition Temperature</b>               | No data available                                                 |                                          |
| <b>pH</b>                                      | No information available                                          |                                          |
| <b>Viscosity</b>                               | 0.66 mPa.s @ 20 °C                                                |                                          |
| <b>Water Solubility</b>                        | Soluble                                                           |                                          |
| <b>Solubility in other solvents</b>            | No information available                                          |                                          |
| <b>Partition Coefficient (n-octanol/water)</b> |                                                                   |                                          |
| <b>Component</b>                               | <b>log Pow</b>                                                    |                                          |
| 2,6-Di-tert-butyl-p-cresol                     | 5.1                                                               |                                          |
| 1,3-Dioxolane                                  | -0.37                                                             |                                          |
| <b>Vapor Pressure</b>                          | 70 mmHg @ 20 °C                                                   |                                          |
| <b>Density / Specific Gravity</b>              | 1.060                                                             |                                          |
| <b>Bulk Density</b>                            | Not applicable                                                    | Liquid                                   |
| <b>Vapor Density</b>                           | No data available                                                 | (Air = 1.0)                              |
| <b>Particle characteristics</b>                | Not applicable (liquid)                                           |                                          |

### 9.2. Other information

**Molecular Formula** C3 H6 O2

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Molecular Weight 74.08  
Explosive Properties Vapors may form explosive mixtures with air

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity** Yes

**10.2. Chemical stability** May form explosive peroxides.

**10.3. Possibility of hazardous reactions**

**Hazardous Polymerization** Hazardous polymerization does not occur.  
**Hazardous Reactions** 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 moist air or water.

**10.5. Incompatible materials** Strong oxidizing agents.

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

| Component                  | LD50 Oral             | LD50 Dermal                  | LC50 Inhalation              |
|----------------------------|-----------------------|------------------------------|------------------------------|
| 2,6-Di-tert-butyl-p-cresol | > 6 g/kg ( Rat )      | > 2 g/kg ( Rat )             | -                            |
| 1,3-Dioxolane              | LD50 = 3 g/kg ( Rat ) | LD50 = 8480 mg/kg ( Rabbit ) | LC50 = 68.4 mg/L ( Rat ) 4 h |

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;  
Respiratory No data available  
Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

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There are no known carcinogenic chemicals in this product.

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects, both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

## 11.2. Information on other hazards

Endocrine Disrupting Properties  
Assess endocrine disrupting  
properties for human health

Contains a substance on the National Authorities Endocrine Disruptor Lists

| Component                                              | EU National Authorities Endocrine Disruptor Lists - Health |
|--------------------------------------------------------|------------------------------------------------------------|
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 ( 0.006-0.008 ) | List II                                                    |

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity effects

Do not empty into drains. .

| Component                  | Freshwater Fish       | Water Flea          | Freshwater Algae                            |
|----------------------------|-----------------------|---------------------|---------------------------------------------|
| 2,6-Di-tert-butyl-p-cresol | LC50 = 0.199 mg/L 96h | EC50 >0.31 mg/L 48h | EC50 = 0.758 mg/L 96h<br>EC50 = 6 mg/L 72 h |
| 1,3-Dioxolane              | >100 mg/L             | >772 mg/L           |                                             |

| Component                  | Microtox                                                                     | M-Factor |
|----------------------------|------------------------------------------------------------------------------|----------|
| 2,6-Di-tert-butyl-p-cresol | EC50 = 7.82 mg/L 5 min<br>EC50 = 8.57 mg/L 15 min<br>EC50 = 8.98 mg/L 30 min | 1        |

### 12.2. Persistence and degradability

Persistence

Biodegradability

Persistence is unlikely, based on information available.

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely

| Component                  | log Pow | Bioconcentration factor (BCF) |
|----------------------------|---------|-------------------------------|
| 2,6-Di-tert-butyl-p-cresol | 5.1     | 230 - 2500 dimensionless      |
| 1,3-Dioxolane              | -0.37   | No data available             |

### 12.4. Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Will likely be mobile in the environment due to its volatility. Disperses rapidly in

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air

## 12.5. Results of PBT and vPvB assessment

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).

## 12.6. Endocrine disrupting properties

### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

## 12.7. Other adverse effects

### 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 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.

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

#### 14.1. UN number or ID number

UN1166

#### 14.2. UN proper shipping name

DIOXOLANE

#### 14.3. Transport hazard class(es)

3

#### 14.4. Packing group

II

### ADR

#### 14.1. UN number or ID number

UN1166

#### 14.2. UN proper shipping name

DIOXOLANE

#### 14.3. Transport hazard class(es)

3

#### 14.4. Packing group

II

### IATA

#### 14.1. UN number or ID number

UN1166

#### 14.2. UN proper shipping name

DIOXOLANE

#### 14.3. Transport hazard class(es)

3

#### 14.4. Packing group

II

ACR29948

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- 14.5. Environmental hazards** No hazards identified
- 14.6. Special precautions for user** No special precautions required.
- 14.7. Maritime transport in bulk according to IMO instruments** Not applicable, packaged goods

## SECTION 15: REGULATORY INFORMATION

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

#### International Inventories

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

| Component                  | CAS No   | EINECS    | ELINCS | NLP | IECSC | TCSI | KECL     | ENCS | ISHL |
|----------------------------|----------|-----------|--------|-----|-------|------|----------|------|------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | 204-881-4 | -      | -   | X     | X    | KE-03079 | X    | X    |
| 1,3-Dioxolane              | 646-06-0 | 211-463-5 | -      | -   | X     | X    | KE-12027 | X    | X    |

| Component                  | CAS No   | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|----------------------------|----------|------|-----------------------------------------------|-----|------|------|-------|-------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | X    | ACTIVE                                        | X   | -    | X    | X     | X     |
| 1,3-Dioxolane              | 646-06-0 | X    | ACTIVE                                        | X   | -    | -    | X     | X     |

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) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|----------------------------|----------|---------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | -                                                                   | -                                                                             | -                                                                                                     |
| 1,3-Dioxolane              | 646-06-0 | -                                                                   | -                                                                             | -                                                                                                     |

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

| Component                  | CAS No   | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|----------------------------|----------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Not applicable                                                                            | Not applicable                                                                           |
| 1,3-Dioxolane              | 646-06-0 | Not applicable                                                                            | Not applicable                                                                           |

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

| Component                  | CAS No   | OECD HPV | Restriction of Hazardous Substances (RoHS) | Basel Convention (Hazardous Waste) |
|----------------------------|----------|----------|--------------------------------------------|------------------------------------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Listed   | Not applicable                             | Not applicable                     |
| 1,3-Dioxolane              | 646-06-0 | Listed   | 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)?

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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** See table for values

| Component                  | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|----------------------------|---------------------------------------|-------------------------|
| 2,6-Di-tert-butyl-p-cresol | WGK 2                                 |                         |
| 1,3-Dioxolane              | 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

H319 - Causes serious eye irritation

H225 - Highly flammable liquid and vapor

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

### Legend

**CAS** - Chemical Abstracts Service

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japanese Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**NOEC** - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer  
Predicted No Effect Concentration (PNEC)

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**POW** - Partition coefficient Octanol:Water

**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

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

**VOC** - (Volatile Organic Compound)

# SAFETY DATA SHEET

1,3-Dioxolane, stabilized

Revision Date 29-Sep-2023

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## Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

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

## Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

Creation Date 01-Jun-2010

Revision Date 29-Sep-2023

Revision Summary .

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

## Disclaimer

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**End of Safety Data Sheet**