

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

### 1.1. Product identifier

**Product Description:** 1,1-Di(tert-butylperoxy)cyclohexane, 50% solution in mineral oil  
**Cat No. :** 361310000; 361310100; 361312500  
**Synonyms** Trigonox<sup>®</sup>4 22  
**Molecular Formula** C14H28O4

### 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

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

##### Physical hazards

Organic peroxides Type D (H242)

##### Health hazards

Aspiration Toxicity Category 1 (H304)

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## Environmental hazards

Chronic aquatic toxicity

Category 4 (H413)

Full text of Hazard Statements: see section 16

## 2.2. Label elements



Signal Word

Danger

## Hazard Statements

H242 - Heating may cause a fire

H304 - May be fatal if swallowed and enters airways

H413 - May cause long lasting harmful effects to aquatic life

## Precautionary Statements

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

P234 - Keep only in original packaging

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

P410 - Protect from sunlight

P420 - Store separately

## 2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

| Component                            | CAS No    | EC No             | Weight % | CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 |
|--------------------------------------|-----------|-------------------|----------|---|
| White mineral oil                    | 8042-47-5 | EEC No. 232-455-8 | 50       | -   |
| 1,1-Di(tert-butylperoxy)-cyclohexane | 3006-86-8 | EEC No. 221-111-2 | 50       | Org. Perox. B (H241)<br>Asp. Tox. 1 (H304)<br>Aquatic Chronic 4 (H413)                  |

Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

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|   |   |
|---|---|
| <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 soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.  |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Clean mouth with water. Get medical attention. Call a physician or poison control center immediately. If vomiting occurs naturally, have victim lean forward. |
| <b>Inhalation</b>                         | Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention. Risk of serious damage to the lungs (by aspiration).       |
| <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

No information available.

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

**Notes to Physician** Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam.

#### **Extinguishing media which must not be used for safety reasons**

No information available.

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

Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

#### **Hazardous Combustion Products**

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

### 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.

### 6.2. Environmental precautions

See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage.

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

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

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## 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

Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Do not subject to grinding/shock/friction. Keep away from clothing and other combustible materials.

### 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

Do not store near combustible materials. Keep refrigerated. Keep containers tightly closed in a dry, cool and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510 Class 5.2  
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):

#### 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) |
|--|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| White mineral oil<br>8042-47-5 ( 50 )                    |                              |                                 |                                | DNEL = 217.05mg/kg<br>bw/day      |
| 1,1-Di(tert-butylperoxy)-cyclohexane<br>3006-86-8 ( 50 ) |                              |                                 |                                | DNEL = 15mg/kg<br>bw/day          |

| Component                             | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|---------------------------------------|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| White mineral oil<br>8042-47-5 ( 50 ) |                                  |                                     |                                    | DNEL = 164.56mg/m <sup>3</sup>        |
| 1,1-Di(tert-butylperoxy)-cyclohexane  |                                  |                                     |                                    | DNEL = 5.29mg/m <sup>3</sup>          |

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|                  |  |  |  |
|------------------|--|--|--|
| 3006-86-8 ( 50 ) |  |  |  |
|------------------|--|--|--|

## Predicted No Effect Concentration (PNEC)

See values below.

| Component  | Fresh water      | Fresh water sediment          | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture)         |
|--|------------------|-------------------------------|--------------------|------------------------------------|----------------------------|
| 1,1-Di(tert-butylperoxy)-cyclohexane<br>3006-86-8 ( 50 ) | PNEC = 0.005mg/L | PNEC = 0.262mg/kg sediment dw | PNEC = 0.005mg/L   | PNEC = 2mg/L                       | PNEC = 0.0499mg/kg soil dw |

| Component  | Marine water      | Marine water sediment          | Marine water intermittent | Food chain | Air |
|--|-------------------|--------------------------------|---------------------------|------------|-----|
| 1,1-Di(tert-butylperoxy)-cyclohexane<br>3006-86-8 ( 50 ) | PNEC = 0.0005mg/L | PNEC = 0.0262mg/kg sediment dw |                           |            |     |

## 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 equipment

#### Eye Protection

Goggles (European standard - EN 166)

#### Hand Protection

Protective gloves

| Glove material | Breakthrough time                 | Glove thickness | EU standard | Glove comments        |
|----------------|-----------------------------------|-----------------|-------------|-----------------------|
| Natural rubber | See manufacturers recommendations | -               | EN 374      | (minimum requirement) |
| Nitrile rubber |                                   |                 |             |                       |
| Neoprene       |                                   |                 |             |                       |
| PVC            |                                   |                 |             |                       |

#### 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 compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

#### Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

#### Large scale/emergency use

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**Recommended Filter type:** 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.

**Recommended half mask:-** Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141

When RPE is used a face piece Fit Test should be conducted

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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                              | Clear                         |  |
| Odor                                    | Slight                        |  |
| Odor Threshold                          | No data available             |  |
| Melting Point/Range                     | No data available             |  |
| Softening Point                         | No data available             |  |
| Boiling Point/Range                     | 52 - 54 °C / 125.6 - 129.2 °F | @ 0.1 mmHg                               |
| Flammability (liquid)                   | No data available             |  |
| Flammability (solid,gas)                | Not applicable                | Liquid                                   |
| Explosion Limits                        | No data available             |  |
| Flash Point                             | No information available      | <b>Method -</b> No information available |
| Autoignition Temperature                | 350 °C / 662 °F               |  |
| Decomposition Temperature               | No data available             |  |
| pH                                      | No information available      |  |
| Viscosity                               | No data available             |  |
| Water Solubility                        | No information available      |  |
| Solubility in other solvents            | No information available      |  |
| Partition Coefficient (n-octanol/water) |                               |  |
| Component                               | <b>log Pow</b>                |  |
| White mineral oil                       | 6                             |  |
| 1,1-Di(tert-butylperoxy)-cyclohexane    | 7.2                           |  |
| Vapor Pressure                          | No data available             |  |
| Density / Specific Gravity              | 0.95                          |  |
| Bulk Density                            | Not applicable                | Liquid                                   |
| Vapor Density                           | No data available             | (Air = 1.0)                              |
| Particle characteristics                | Not applicable (liquid)       |  |

### 9.2. Other information

|                      |          |
|----------------------|----------|
| Molecular Formula    | C14H28O4 |
| Molecular Weight     | 260.37   |
| Oxidizing Properties | Oxidizer |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Yes

### 10.2. Chemical stability

Oxidizer: Contact with combustible/organic material may cause fire.

### 10.3. Possibility of hazardous reactions

|                          |                           |
|--------------------------|---------------------------|
| Hazardous Polymerization | No information available. |
| Hazardous Reactions      | No information available. |

### 10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. Combustible material. Excess heat.

### 10.5. Incompatible materials

Acids. Bases. Metals. Reducing Agent. Strong reducing agents. Combustible material.

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## 10.6. Hazardous decomposition products

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

## 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

#### Toxicology data for the components

| Component                            | LD50 Oral         | LD50 Dermal          | LC50 Inhalation |
|--------------------------------------|-------------------|----------------------|-----------------|
| White mineral oil                    | >5000 mg/kg (Rat) | >3000 mg/kg (Rabbit) | -               |
| 1,1-Di(tert-butylperoxy)-cyclohexane | >5000 mg/kg (Rat) | >2000 mg/kg (Rat)    | -               |

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

##### (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

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; Category 1

#### Other Adverse Effects

The toxicological properties have not been fully investigated.

Symptoms / effects, both acute and delayed No information available.

### 11.2. Information on other hazards

#### Endocrine Disrupting Properties

Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Ecotoxicity effects

Do not empty into drains. .

| Component                            | Freshwater Fish                                     | Water Flea | Freshwater Algae |
|--------------------------------------|---|------------|------------------|
| White mineral oil                    | LC50: > 10000 mg/L, 96h<br>(Lepomis macrochirus)    |            |                  |
| 1,1-Di(tert-butylperoxy)-cyclohexane | LC50: > 0.64 mg/L, 96h<br>semi-static (Danio rerio) |            |                  |

### 12.2. Persistence and degradability

#### Persistence

No information available

Persistence is unlikely, based on information available.

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely

| Component                            | log Pow | Bioconcentration factor (BCF) |
|--------------------------------------|---------|-------------------------------|
| White mineral oil                    | 6       | No data available             |
| 1,1-Di(tert-butylperoxy)-cyclohexane | 7.2     | 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 air.

### 12.5. Results of PBT and vPvB assessment

No data available for assessment.

### 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.



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## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

**14.1. UN number** UN3105  
**14.2. UN proper shipping name** ORGANIC PEROXIDE TYPE D, LIQUID  
**14.3. Transport hazard class(es)** 5.2  
**14.4. Packing group**

### ADR

**14.1. UN number** UN3105  
**14.2. UN proper shipping name** ORGANIC PEROXIDE TYPE D, LIQUID  
**14.3. Transport hazard class(es)** 5.2  
**14.4. Packing group**

### IATA

**14.1. UN number** UN3105  
**14.2. UN proper shipping name** ORGANIC PEROXIDE TYPE D, LIQUID  
**14.3. Transport hazard class(es)** 5.2  
**14.4. Packing group**

**14.5. Environmental hazards** No hazards identified  
**14.6. Special precautions for user** No special precautions required.  
**14.7. Maritime transport in bulk according to IMO instruments** 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 |
|--------------------------------------|-----------|-----------|--------|-----|-------|------|-----------------|------|------|
| White mineral oil                    | 8042-47-5 | 232-455-8 | -      | -   | X     | X    | KE-35412        | X    | X    |
| 1,1-Di(tert-butylperoxy)-cyclohexane | 3006-86-8 | 221-111-2 | -      | -   | X     | X    | 2004-3-28<br>58 | X    | X    |

| Component                            | CAS No    | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|--------------------------------------|-----------|------|---|-----|------|------|-------|-------|
| White mineral oil                    | 8042-47-5 | X    | ACTIVE  | X   | -    | X    | X     | X     |
| 1,1-Di(tert-butylperoxy)-cyclohexane | 3006-86-8 | X    | ACTIVE  | X   | -    | 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) |
|-----------|--------|---|---|---|
|-----------|--------|---|---|---|

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|                                      |           |   |   |   |
|--------------------------------------|-----------|---|---|---|
| White mineral oil                    | 8042-47-5 | - | - | - |
| 1,1-Di(tert-butylperoxy)-cyclohexane | 3006-86-8 | - | - | - |

## 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 |
|--------------------------------------|-----------|---|--|
| White mineral oil                    | 8042-47-5 | Not applicable  | Not applicable   |
| 1,1-Di(tert-butylperoxy)-cyclohexane | 3006-86-8 | Not applicable  | Not applicable   |

## Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

## Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

## National Regulations

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

## WGK Classification

Water endangering class = 2 (self classification)

| Component                            | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|--------------------------------------|---------------------------------------|-------------------------|
| White mineral oil                    | WGK1                                  |                         |
| 1,1-Di(tert-butylperoxy)-cyclohexane | WGK2                                  |                         |

| Component         | France - INRS (Tables of occupational diseases)         |
|-------------------|---|
| White mineral oil | Tableaux des maladies professionnelles (TMP) - RG 36bis |

## 15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

H241 - Heating may cause a fire or explosion  
H304 - May be fatal if swallowed and enters airways  
H242 - Heating may cause a fire  
H413 - May cause long lasting harmful effects to aquatic life

### 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

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

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

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

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**IECSC** - Chinese Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated 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/MDG** - International Maritime Organization/International Maritime Dangerous Goods Code

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

**BCF** - Bioconcentration factor

## Key literature references and sources for data

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

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

**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)

## Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

**Physical hazards** On basis of test data

**Health Hazards** Calculation method

**Environmental hazards** Calculation method

## 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** 09-Feb-2024

**Revision Summary** Not applicable.

**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**