

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

Creation Date 14-Mar-2012

Revision Date 29-Sep-2023

Revision Number 8

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

1.1. Product identifier

| Product Description: | |
|---------------------------|--|
| Cat No. : | |
| Synonyms | |
| Index No | |
| CAS No | |
| EC No | |
| Molecular Formula | |
| REACH registration number | |

Di-tert-butyl peroxide 349930000; 349930050; 349931000 DTBP; Trigonox® B; tert-Butyl peroxide 617-001-00-2 110-05-4 203-733-6 C8H18O2 01-2119513335-48

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

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

1.3. Details of the supplier of the safety data sheet

| 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 |
| E-mail address | begel.sdsdesk@thermofisher.com |
| 1.4. Emergency telephone number | For information US call: 001-800-227-6701 / Europe call: +32 14 |

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

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| Flammable liquids Organic peroxides | Category 2 (H225) Type E (H242) |
|--|------------------------------------|
| Health hazards | |
| Germ Cell Mutagenicity | Category 2 (H341) |
| Environmental hazards | |
| Chronic aquatic toxicity | Category 3 (H412) |
| | |

Full text of Hazard Statements: see section 16

2.2. Label elements

Di-tert-butyl peroxide



Signal Word

Danger

Hazard Statements

H225 - Highly flammable liquid and vapor

- H242 Heating may cause a fire
- H341 Suspected of causing genetic defects
- H412 Harmful to aquatic life with long lasting effects

Precautionary Statements

P201 - Obtain special instructions before use

- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- 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)

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 GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 |
|------------------------|----------|-------------------|----------|---|
| Di-tert-butyl peroxide | 110-05-4 | EEC No. 203-733-6 | >95 | Flam. Liq. 2 (H225) Org. Perox. E (H242) Muta. 2 (H341) Aquatic Chronic 3 (H412) |

REACH registration number

01-2119513335-48

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. Immediate medical attention is required. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required. |
| Ingestion | Do NOT induce vomiting. Call a physician or poison control center immediately. |
| Inhalation | Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration. |
| 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 |
| | Difficulty in breathing. 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

Notes to Physician

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. 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. Oxidizer: Contact with combustible/organic material may cause fire. Vapors may travel to source of ignition and flash back. May ignite combustibles (wood paper, oil, clothing, etc.). Containers may explode when heated. Vapors may form explosive mixtures with air.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO₂), 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. 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. Do not flush into surface water or sanitary sewer system. 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. 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 clothing and other combustible materials. 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.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Keep away from heat, sparks and flame. Keep refrigerated. Keep at temperatures above -30°C.

Technical Rules for Hazardous Substances (TRGS) 510Class 5.2Storage Class (LGK) (Germany)

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

Di-tert-butyl peroxide

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 | Acute effects | Chronic effects local | Chronic effects |
|--|---------------------|-------------------|-----------------------|----------------------|
| | (Dermal) | systemic (Dermal) | (Dermal) | systemic (Dermal) |
| Di-tert-butyl peroxide 110-05-4 (>95) | | | | DNEL = 3mg/kg bw/day |

| Component | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|--|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|
| Di-tert-butyl peroxide 110-05-4 (>95) | | | | DNEL = 20mg/m ³ |

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | Fresh water | Water Intermittent | Microorganisms in | Soil (Agriculture) |
|------------------------|------------------|----------------|--------------------|-------------------|--------------------|
| | | sediment | | sewage treatment | - |
| Di-tert-butyl peroxide | PNEC = 0.144mg/L | PNEC = 15mg/kg | PNEC = 0.36mg/L | PNEC = 10mg/L | PNEC = 2.94mg/kg |
| 110-05-4 (>95) | - | sediment dw | | | soil dw |

| Component | Marine water | Marine water sediment | Marine water intermittent | Food chain | Air |
|--|----------------------|--------------------------------|------------------------------|------------|-----|
| Di-tert-butyl peroxide 110-05-4 (>95) | PNEC = 0.0144mg/L | PNEC = 1.5mg/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 Natural rubber Nitrile rubber Neoprene PVC | Breakthrough time See manufacturers recommendations | Glove thickness - | EU standard EN 374 | Glove comments (minimum requirement) |
|---|---|----------------------|-----------------------|---|
| Skin and body prote | ection Long sle | eved clothing. | | |

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.

(Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

| Respiratory Protection | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly |
|---------------------------------|--|
| Large scale/emergency use | Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced 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 |
| Environmental exposure controls | Prevent product from entering drains. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Physical State | Liquid | |
|---|---|--|
| Appearance Odor Odor Threshold Melting Point/Range Softening Point Boiling Point/Range Flammability (liquid) Flammability (solid,gas) Explosion Limits | Slight No data available -30 °C / -22 °F No data available 109 - 110 °C / 228.2 - 230 °F Highly flammable Not applicable Lower 18 vol% | On basis of test data Liquid |
| Flash Point Autoignition Temperature Decomposition Temperature Self-Accelerating Decomposition Temperature (SADT) pH Viscosity Water Solubility | 6 °C / 42.8 °F 165 - °C / 329 - °F No data available 80°C No information available 0.9 mPa.s @ 20°C Immiscible | Method - No information available |
| Solubility in other solvents Partition Coefficient (n-octanol/wate Component Di-tert-butyl peroxide Vapor Pressure Density / Specific Gravity Bulk Density Vapor Density | log Pow 3 2.1 kPa @ 20°C 0.800 Not applicable No data available | Liquid (Air = 1.0) |
| Particle characteristics | Not applicable (liquid) | |

9.2. Other information

Di-tert-butyl peroxide

Molecular Formula Molecular Weight Explosive Properties Oxidizing Properties C8H18O2 146.23 Vapors may form explosive mixtures with air Oxidizer

SECTION 10: STABILITY AND REACTIVITY

| 10.1. Reactivity | Yes | |
|---|---|--|
| 10.2. Chemical stability | Stable under normal conditions. Oxidizer: Contact with combustible/organic material may cause fire. | |
| 10.3. Possibility of hazardous reactions | | |
| Hazardous Polymerization Hazardous Reactions | Hazardous polymerization does not occur. None under normal processing. | |
| 10.4. Conditions to avoid | Incompatible products. Excess heat. Combustible material. Keep away from open flames, hot surfaces and sources of ignition. | |
| 10.5. Incompatible materials | Acids. Bases. Metals. Reducing Agent. Finely powdered metals. Strong reducing agents. Combustible material. | |

10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO₂). Acetone.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product Information

(a) acute toxicity;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------------|---------------|-------------|---------------------------|
| Di-tert-butyl peroxide | 25 g/kg (Rat) | >2000 mg/kg | LC50 > 22.6 mg/L (Rat)4 h |
| | | | |

| (b) skin corrosion/irritation; | Based on available data, the classification criteria are not met |
|---|--|
| (c) serious eye damage/irritation; | Based on available data, the classification criteria are not met |
| (d) respiratory or skin sensitization; Respiratory Skin | Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met |
| (e) germ cell mutagenicity; | Category 2 |

| | Mutagenic |
|---|--|
| (f) carcinogenicity; | Based on available data, the classification criteria are not met |
| | There are no known carcinogenic chemicals in this product |
| | |
| (g) reproductive toxicity; | Based on available data, the classification criteria are not met |
| (h) STOT-single exposure; | Based on available data, the classification criteria are not met |
| | |
| (i) STOT-repeated exposure; | Based on available data, the classification criteria are not met |
| Target Organs | None known. |
| (j) aspiration hazard; | Based on available data, the classification criteria are not met |
| 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. This product does not contain any known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity effects

Do not empty into drains. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

| Component | Freshwater Fish | Water Flea | Freshwater Algae |
|------------------------|----------------------|------------|--------------------|
| Di-tert-butyl peroxide | LC50 > 170 mg/L 96 h | | EC50 = 36 mg/L 72h |

 12.2. Persistence and degradability
 Not readily biodegradable

 Persistence
 Persistence is unlikely.

 Degradation in sewage
 Contains substances known to be hazardous to the environment or not degradable in waste

 treatment plant
 water treatment plants.

12.3. Bioaccumulative potential Bioaccumulation is unlikely

| Component | log Pow | Bioconcentration factor (BCF) |
|------------------------|---------|-------------------------------|
| Di-tert-butyl peroxide | 3 | No data available |

12.4. Mobility in soil The product is insoluble and floats on water The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces Spillage unlikely to penetrate soil . Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility.

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

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Di-tert-butyl peroxide

assessment

and very bioaccumulative (vPvB).

<u>12.6. Endocrine disrupting</u> properties Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

<u>12.7. Other adverse effects</u> 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 | Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Can be landfilled or incinerated, when in compliance with local regulations. Do not let this chemical enter the environment. Do not empty into drains. |

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

| <u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> Technical Shipping Name <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u> | UN3107 ORGANIC PEROXIDE TYPE E, LIQUID (DI-TERT-BUTYL PEROXIDE) 5.2 II |
|--|--|
| ADR | |
| <u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> Technical Shipping Name <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u> | UN3107 ORGANIC PEROXIDE TYPE E, LIQUID (DI-TERT-BUTYL PEROXIDE) 5.2 |

<u>IATA</u>

| <u>14.1. UN number</u> | UN3107 |
|----------------------------------|---------------------------------|
| 14.2. UN proper shipping name | ORGANIC PEROXIDE TYPE E, LIQUID |
| Technical Shipping Name | (DI-TERT-BUTYL PEROXIDE) |
| 14.3. Transport hazard class(es) | 5.2 |
| 14.4. Packing group | II |

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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 |
|------------------------|----------|-----------|--------------------------------|-----|-------|------|----------|-------|-------|
| Di-tert-butyl peroxide | 110-05-4 | 203-733-6 | - | - | Х | Х | KE-03082 | Х | Х |
| | | | | | | | | | |
| Component | CAS No | TSCA | TSCA In notific Active-l | • | DSL | NDSL | AICS | NZIoC | PICCS |
| Di-tert-butyl peroxide | 110-05-4 | Х | ACT | IVE | 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

| 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) |
|------------------------|----------|---|--|---|
| Di-tert-butyl peroxide | 110-05-4 | - | Use restricted. See item 75. (see link for restriction details) | - |

REACH links

https://echa.europa.eu/substances-restricted-under-reach

Seveso III Directive (2012/18/EC)

| Component | CAS No | Seveso III Directive (2012/18/EC) - | Seveso III Directive (2012/18/EC) - |
|------------------------|----------|--|---|
| - | | Qualifying Quantities for Major Accident | Qualifying Quantities for Safety Report |
| | | Notification | Requirements |
| Di-tert-butyl peroxide | 110-05-4 | 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

See table for values

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|------------------------|---------------------------------------|-------------------------|
| Di-tert-butyl peroxide | 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

H225 - Highly flammable liquid and vapor

H242 - Heating may cause a fire

H341 - Suspected of causing genetic defects

H412 - Harmful to aquatic life with long lasting effects

Legend

| CAS - Chemical Abstracts Service | TSCA - United States Toxic Substances Control Act Section 8(b) Inventory |
|--|--|
| 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 | 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 Key literature references and sources for data https://echa.europa.eu/information-on-chemicals | 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) |
| Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, R | RTECS |

Training Advice

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

Di-tert-butyl peroxide

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

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

| Creation Date | 14-Mar-2012 |
|------------------|-----------------|
| Revision Date | 29-Sep-2023 |
| Revision Summary | Not applicable. |

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

Disclaimer

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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