

Catalyst 25 kg

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Catalyst 25 kg

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

Identified uses: Polymerization initiators.

Uses advised against: Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Alteco Technik GmbH
Raiffeisenstrasse 16
D-27239 Twistringen
Germany

Telephone: +49 424392950

Fax: +49 4243929589

Contact Person: MSDS_Alteco@cpg-europe.com

National Supplier

Tremco CPG UK Limited
Coupland Road
WN2 4HT Hindley Green, WIGAN
UK

Telephone: +44 1942251400

Fax: +44 1942251410

Contact Person: www.cpg-europe.com, uk.info@cpg-europe.com

1.4 Emergency telephone number: 111 / 0300 020 0155

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Physical Hazards

Organic peroxides	Type D	H242: Heating may cause a fire.
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Health Hazards

Serious eye irritation	Category 2	H319: Causes serious eye irritation.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.
Toxic to reproduction	Category 1B	H360D: May damage the unborn child.

Environmental Hazards

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Acute hazards to the aquatic environment

Category 1

H400: Very toxic to aquatic life.

Chronic hazards to the aquatic environment

Category 1

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label Elements



Signal Words:

Danger

Hazard Statement(s):

H242: Heating may cause a fire.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H360D: May damage the unborn child.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P201: Obtain special instructions before use.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234: Keep only in original packaging.
P235: Keep cool.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P273: Avoid release to the environment.

Response:

P308+P313: IF exposed or concerned: Get medical advice/attention.
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403: Store in a well-ventilated place.

Hazardous ingredients which must be listed on the label:

dibenzoyl peroxide
dicyclohexyl phthalate

2.3 Other hazards

Endocrine disrupting properties-Toxicity

This substance/mixture contains components considered to have endocrine disrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Endocrine disrupting properties-Ecotoxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
dibenzoyl peroxide	50 - <100%	94-36-0		01- 2119511472- 50-XXXX;	Aquatic Toxicity (Acute): 10; Aquatic Toxicity (Chronic): 10	#
dicyclohexyl phthalate	50 - <100%	84-61-7		01- 2119978223- 34-XXXX;	No data available.	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
dibenzoyl peroxide	Classification: Org. Perox.: B: H241; Skin Sens.: 1: H317; Eye Irrit.: 2: H319; Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410; Acute toxicity, inhalation: LC 0: 24,3 mg/l	None.
dicyclohexyl phthalate	Classification: Repr.: 1B: H360D; Skin Sens.: 1: H317; Aquatic Chronic: 2: H411; Acute toxicity, oral: LD 50: > 2.000 mg/kg Acute toxicity, inhalation: LC 50: > 0,8 mg/l Acute toxicity, dermal: LD 50: > 2.000 mg/kg	None.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Move out of dangerous area. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Get medical attention if symptoms persist. Remove contaminated clothing and shoes.

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Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician. If not breathing, give artificial respiration. Rinse nose and mouth with water.
Skin Contact:	Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact:	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention.
Ingestion:	If swallowed, rinse mouth with water (only if the person is conscious). Drink plenty of water. Do not give victim anything to drink if he is unconscious. DO NOT induce vomiting. Get medical attention immediately.
Personal Protection for First-aid Responders:	No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: May cause an allergic skin reaction. Causes serious eye irritation. May damage the unborn child.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture:

CAUTION: re-ignition may occur. Sustains combustion. Avoid water in straight hose stream; will scatter and spread fire. Dust may form explosive mixture with air. In case of fire, toxic gases may be formed. Carbon Dioxide. Carbon Monoxide. Benzene Benzoic acid.

5.3 Advice for firefighters

Special fire-fighting procedures: No data available.

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Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Evacuate area. Use water spray to cool unopened containers. Dike and collect extinguishing water. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Provide adequate ventilation. Remove sources of ignition.

6.1.1 For non-emergency personnel:

Evacuate area. Keep unauthorized personnel away. Avoid contact with eyes, skin, and clothing.

6.1.2 For emergency responders:

See Section 8 of the SDS for Personal Protective Equipment.

6.2 Environmental Precautions:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

6.3 Methods and material for containment and cleaning up:

Keep wetted with water. Confinement must be avoided. Avoid dust formation. Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal. After cleaning, flush away traces with water. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

6.4 Reference to other sections:

See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures:

No data available.

Local/Total ventilation:

No data available.

Safe handling advice:

Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing. Avoid dust formation. Do not breathe dust. Use only in well-ventilated areas. Provide adequate ventilation. Open drum carefully as content may be under pressure. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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smoking. Use non-sparking tools and explosion-proof equipment. It is recommended to use electrical equipment of temperature group T3. However, autoignition can never be excluded. Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps). Keep away from combustible material. Never pierce, drill, grind, cut, saw or weld any empty container. Do not eat, drink or smoke when using the product. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash it before reuse. Private clothes and working clothes should be kept separately.

Contact avoidance measures: No data available.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions: Store in closed original container at temperatures between 5°C and 25°C. Store in a cool and well-ventilated place. Store in a dry place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not allow to dry out during storage. Confinement must be avoided. Use explosion-proof [electrical/ventilating/lighting] equipment. Isolate from other materials.

Safe packaging materials: No data available.

7.3 Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values	Source
dibenzoyl peroxide	TWA		5 mg/m3	EH40 WEL (2007)
	TWA		5 mg/m3	NA OEL (08 1997)
dicyclohexyl phthalate	TWA		5 mg/m3	EH40 WEL (2007)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
dibenzoyl peroxide	Workers	Dermal	Local, long-term; 34 µg/cm2	Skin irritation

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	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	General population	Oral	Systemic, long-term; 2 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 39 mg/m ³	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 13,3 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
dicyclohexyl phthalate	General population	Oral	Systemic, long-term; 0,25 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 35,2 mg/m ³	
	General population	Dermal	Systemic, long-term; 0,25 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, short-term; 0,25 mg/kg	
	General population	Inhalation	Systemic, long-term; 0,87 mg/m ³	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
	Workers	Dermal	Systemic, long-term; 0,5 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Systemic, long-term; 35,2 mg/m ³	Repeated dose toxicity

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
dibenzoyl peroxide	Aquatic (marine water)	0,002 µg/l	
	Soil	0,003 mg/kg	
	Sediment (marine water)	0,001 mg/kg	
	Aquatic (freshwater)	0,02 µg/l	
	Sewage treatment plant	0,35 mg/l	
	Sediment (freshwater)	0,013 mg/kg	
dicyclohexyl phthalate	Predator	133 g/kg	Oral
	Aquatic (marine water)	0,104 µg/l	
	Sewage treatment plant	10 mg/l	
	Aquatic (freshwater)	1,04 µg/l	
	Sediment (freshwater)	1,06 mg/kg	
	Sediment (marine water)	0,11 mg/kg	
	Soil	0,31 mg/kg	

8.2 Exposure controls

Appropriate Engineering Controls:

Observe good industrial hygiene practices. Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust. Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Wear safety glasses with side shields (or goggles). Provide easy access to water supply and eye wash facilities.

Hand Protection:

Material: Nitrile rubber.

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Additional Information: Use protective gloves. Wear suitable gloves tested to EN374. Gloves should be replaced regularly and if there is any sign of damage to the glove material.
Material: Neoprene.

Skin and Body Protection:

Wear suitable protective clothing.

Respiratory Protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Half mask with a particle filter P2 (EN 143)

Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Do not eat, drink or smoke when using the product. Take off contaminated clothing and wash it before reuse. Private clothes and working clothes should be kept separately.

Environmental Controls:

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	solid
Form:	Powder
Color:	White

Odor: Characteristic

Odor Threshold: No data available.

Melting Point: Not applicable

Boiling Point: No data available.

Flammability: May form combustible dust concentrations in air.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: No data available.

Explosive limit - lower: No data available.

Flash Point: No data available.

Auto-ignition temperature: No data available.

Decomposition Temperature: SADT – (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the following temperature: 55°C. Contact with incompatible

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	substances can cause decomposition at or below the SADT 55°C
SADT:	55 °C
pH:	No data available.
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Dissolution Rate:	No data available.
Partition coefficient (n-octanol/water):	No data available.
Dispersion Stability:	No data available.
Vapor pressure:	No data available.
Relative density:	1,23 (20 °C)
Density:	No data available.
Bulk density:	0,64 kg/m ³ 20 °C
Vapor density (air=1):	No data available.

9.2 Other information

Peroxides:	Peroxide Content : 48 - 52 % Available Oxygen Content : 3,3 %
VOC Content:	0 g/l

SECTION 10: Stability and reactivity

10.1 Reactivity:	Material is stable under normal conditions. Decomposes on heating.
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10.2 Chemical Stability:	Material is stable under normal conditions. SADT – (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the following temperature: 55°C. Contact with incompatible substances can cause decomposition at or below the SADT 55°C
10.3 Possibility of hazardous reactions:	Dust may form explosive mixture with air.
10.4 Conditions to avoid:	Keep away from heat/sparks/open flames. - No smoking. Confinement must be avoided. Do not allow to dry.
10.5 Incompatible Materials:	Acids. Bases. Iron. Copper Reducing agents Heavy metals Rust. Reacts violently in contact with acids, amines, driers, polymerization accelerators and easily oxidized materials. Store only in stainless steel, plastic or glass vessels.
10.6 Hazardous Decomposition Products:	Carbon Monoxide. Carbon Dioxide. Benzoic acid. Benzene.

SECTION 11: Toxicological information

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

Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Moderately irritating to skin with prolonged exposure.
Eye contact:	Causes serious eye irritation.
Ingestion:	Ingestion may cause irritation and malaise.

Acute toxicity (list all possible routes of exposure)

Oral

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Product: Not classified for acute toxicity based on available data.

Components:

dicyclohexyl phthalate LD 50, Rat, > 2.000 mg/kg, 1 = reliable without restrictions

Dermal

Product: Not classified for acute toxicity based on available data.

Components:

dicyclohexyl phthalate LD 50, Rat, > 2.000 mg/kg, 1 = reliable without restrictions

Inhalation

Product: Not classified for acute toxicity based on available data.

Components:

dibenzoyl peroxide LC 0, Rat, 4 h, 24,3 mg/l, Dust, No, 2 = reliable with restrictions, Dust

dicyclohexyl phthalate LC 50, Rat, 4 h, > 0,8 mg/l, Dust and mist., Dust and mist.

Repeated dose toxicity

Product: No data available.

Components:

dibenzoyl peroxide NOAEL Rat, female, Oral, >= 29 d, 1.000 mg/kg, Oral Experimental result, Key study
NOAEL Rat, Male, Oral, >= 29 d, 500 mg/kg, Oral Experimental result, Key study

dicyclohexyl phthalate NOAEL Rat, Female, Male, Oral, 90 d, 50 mg/kg, Oral Experimental result, Key study

Skin Corrosion/Irritation

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Product: May cause an allergic skin reaction.

Components:

dibenzoyl peroxide	Not irritant, in vivo, Rabbit, 4 - 72 h, Experimental result, Key study Slightly irritating, in vivo, Rabbit, 24 h, Experimental result, Supporting study Irritating
dicyclohexyl phthalate	Not irritant, In vitro, Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: Causes serious eye irritation.

Components:

dibenzoyl peroxide	Moderately irritating Because no individual data is reported, the categorization of the classification according to the directive 67/548/EEC or according CLP is difficult, therefore an expert judgement is proposed, in vivo, Rabbit, 24 - 72 hrs
dicyclohexyl phthalate	Not irritant, In vitro, Bovine

Respiratory or Skin Sensitization

Product: May cause an allergic skin reaction.

Components:

dibenzoyl peroxide	Skin sensitization:, in vivo, Guinea pig, Sensitising Skin sensitization:, Human, sensitising in humans Skin sensitization:, in vivo, Mouse, Sensitising
dicyclohexyl phthalate	Skin sensitization:, in vivo, Mouse, Sensitising

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Carcinogenicity

Product: No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: May damage the unborn child.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

11.2 Information on other hazards

Other information

Product: No data available.

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SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product: Very toxic to aquatic life.

Components:

dibenzoyl peroxide LC 50, Oryzias latipes, 96 h, 0,24 mg/lflow-through, Experimental result, Supporting study
NOAEL, Poecilia reticulata, 96 h, 0,7 mg/lsemi-static, Experimental result, Supporting study
LC 50, Poecilia reticulata, 96 h, 2 mg/lsemi-static, Experimental result, Supporting study
NOAEL, Oncorhynchus mykiss, 96 h, 0,0316 mg/lsemi-static, Experimental result, Key study
LC 50, Oncorhynchus mykiss, 96 h, 0,0602 mg/lsemi-static, Experimental result, Key study
dicyclohexyl phthalate LC 50, Oryzias latipes, 96 h, > 2 mg/lsemi-static, Experimental result, Key study

Aquatic Invertebrates

Product: No data available.

Components:

dibenzoyl peroxide NOAEL, Daphnia magna, 48 h, 0,0765 mg/lStatic, experimental result
Experimental result, Key study
EC 50, Daphnia magna, 48 h, 0,11 mg/lStatic, experimental result
Experimental result, Key study
dicyclohexyl phthalate NOAEL, Daphnia magna, 48 h, > 2 mg/lStatic, experimental result
Experimental result, Key study

Toxicity to Aquatic Plants

Product: No data available.

Components:

dibenzoyl peroxide ErC 50, Algae, 72 h, 0,83 mg/l, Experimental result, Supporting study
ErC 50, Algae, 72 h, 0,44 mg/l, Experimental result, Supporting study

Toxicity to microorganisms

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: Very toxic to aquatic life with long lasting effects.

Aquatic Invertebrates

Product: No data available.

Components:

dicyclohexyl phthalate EC 50, Daphnia magna, 0,679 mg/l, semi-static, experimental result

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Experimental result, Key study
EC 50, Daphnia magna, 0,679 mg/l, semi-static, experimental result
Experimental result, Key study

Toxicity to microorganisms

Product: No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Components:
dibenzoyl peroxide 68 %, 28 d, Detected in water. Experimental result, Key study
88 %, 21 d, Detected in water. Not specified, Supporting study
dicyclohexyl phthalate 56 %, 28 d, Detected in water. Experimental result, Supporting study
91 %, 28 d, Detected in water. Experimental result, Key study

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:
dicyclohexyl phthalate 90,9, Aquatic sediment QSAR, Weight of Evidence study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Components:
dibenzoyl peroxide 3,46

12.4 Mobility in soil:

Product No data available.

12.5 Results of PBT and vPvB assessment:

Product No data available.

12.6 Other adverse effects:

Other hazards

Product: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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General information:

This material and/or its container must be disposed of as hazardous waste. Dispose of waste and residues in accordance with local authority requirements.

Disposal methods:

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging:

Since emptied containers retain product residue, follow label warnings even after container is emptied. Do not puncture or incinerate even when empty. Dispose of this material and its container to hazardous or special waste collection point.

European Waste Codes

Unused product:

16 09 03*: peroxides, for example hydrogen peroxide

SECTION 14: Transport information

ADR

14.1 UN number or ID number:	UN 3106
14.2 UN Proper Shipping Name:	ORGANIC PEROXIDE TYPE D, SOLID(dibenzoyl peroxide)
14.3 Transport Hazard Class(es)	
Class:	5.2
Label(s):	5.2
Classification Code:	P1
Hazard No. (ADR):	–
Tunnel restriction code:	(D)
14.4 Packing Group:	–
Limited quantity	500 G
Excepted quantity	E0
14.5 Environmental Hazards	
Environmentally Hazardous:	Yes
14.6 Special precautions for user:	None.

IMDG

14.1 UN number or ID number:	UN 3106
14.2 UN Proper Shipping Name:	ORGANIC PEROXIDE TYPE D, SOLID(dibenzoyl peroxide)
14.3 Transport Hazard Class(es)	
Class:	5.2
Label(s):	5.2
EmS No.:	F-J, S-R
14.4 Packing Group:	–
Limited quantity	500 G
Excepted quantity	E0
14.5 Environmental Hazards	
Marine Pollutant:	Yes
14.6 Special precautions for user:	None.

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IATA

14.1 UN number or ID number:	UN 3106
14.2 UN Proper Shipping Name:	Organic peroxide type D, solid(dibenzoyl peroxide)
14.3 Transport Hazard Class(es)	
Class:	5.2
Label(s):	5.2, 74F
14.4 Packing Group:	–
Passenger and cargo aircraft :	570
Limited quantity	None.
Excepted quantity	E0
14.5 Environmental Hazards	
Environmentally Hazardous:	Yes
14.6 Special precautions for user:	None.
Passenger and cargo aircraft:	Allowed. 570
Cargo aircraft only :	Allowed. 570

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

EU Regulations

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None present or none present in regulated quantities.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

Classification	Lower-tier Requirements	Upper-tier Requirements
P6a. Self-reactive substances and mixtures and Organic Peroxides	10 t	50 t

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms:

EH40 WEL:

NA OEL:

UK. EH40 Workplace Exposure Limits (WELs), as amended
Namibia. OELs. Occupational Exposure Limits for Airborne Hazardous Substances, Regulations Relating to the Health and Safety of Employees at Work, Government Notice No. 156

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EH40 WEL / TWA: Time Weighted Average (TWA):
NA OEL / TWA: Time Weighted Average (TWA):

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data: No data available.

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

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Organic peroxides, Type D	On basis of test data
Serious eye irritation, Category 2	On basis of test data
Skin sensitizer, Category 1	On basis of test data
Toxic to reproduction, Category 1B	On basis of test data
Acute hazards to the aquatic environment, Category 1	On basis of test data
Chronic hazards to the aquatic environment, Category 1	On basis of test data

Wording of the statements in section 2 and 3

Catalyst 25 kg

H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360D	May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Training information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.