

SAFETY DATA SHEET  
according to Regulation (EC) No. 1907/2006



**MEKP**

Version 2      Revision Date 10.03.2020      Print Date 13.11.2020      GB / EN

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

**1.1 Product identifier**

Trade name : MEKP

REACH Registration Number :

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

Use of the Substance/Mixture : Specific use(s): Curing agent

**1.3 Details of the supplier of the safety data sheet**

Company : Easy Composites Ltd  
Unit 39 Park Hall Business Village,  
Longton,  
Stoke-on-Trent,  
ST3 5XA

Telephone : 01782 454499  
E-mail address : sales@easycomposites.co.uk

**1.4 Emergency telephone number**

Emergency telephone number : 01782 454499 (office hours only)

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**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Organic peroxides, D, H242  
Acute toxicity, 4, H302  
Acute toxicity, 4, H332  
Skin corrosion, 1B, H314  
Serious eye damage, 1, H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Pictogram



Signal word

: Danger

Hazard statements

: H242 Heating may cause a fire.  
H302 + H332 Harmful if swallowed or if inhaled.  
H314 Causes severe skin burns and eye damage.

Precautionary statements

: **Prevention:**  
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.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

### Hazardous components which must be listed on the label:

Methyl ethyl ketone peroxide; Reaction mass of butane- 1338-23-4  
2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane

## 2.3 Other hazards

No further data available.

PBT and vPvB assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

Pure substance/mixture : Mixture

**Hazardous substance**

Chemical name	PBT vPvB OEL	CAS-No. EC-No. REACH No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane		1338-23-4 700-954-4 01-2119514691-43	Org. Perox. A; H240 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318	30 - 37
Methyl ethyl ketone		78-93-3 201-159-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	1 - 5

For the full text of the H-Statements mentioned in this Section, see Section 16.

**REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).**

Status : Not applicable

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

- General advice : Immediate medical attention is required.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : If breathed in, move person into fresh air.  
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Rinse immediately with plenty of water.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Rinse with plenty of water.  
Get medical attention immediately. Continue to rinse during transport.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.  
Do not induce vomiting! May cause chemical burns in mouth and throat.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

Risks : Harmful if swallowed or if inhaled.  
Causes serious eye damage.  
Causes severe burns.

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

Treatment : Treat symptomatically.

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### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Specific hazards during firefighting / Specific hazards arising from the chemical : CAUTION: reignition may occur.  
Supports combustion.  
Water spray may be ineffective unless used by experienced firefighters.  
Do not allow run-off from fire fighting to enter drains or water courses.  
Hazardous decomposition products formed under fire conditions.

Combustion products : Fire will produce smoke containing hazardous combustion products (see section 10).

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Further information : Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Wear respiratory protection.

Ensure adequate ventilation.  
Remove all sources of ignition.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Emergency measures on accidental release : Evacuate personnel to safe areas.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
Prevent unauthorised persons entering the zone.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up / Methods for containment : Soak up with inert absorbent material and dispose of as hazardous waste.  
Keep wetted with water.  
Confinement must be avoided.  
Never return spills in original containers for re-use.

### 6.4 Reference to other sections

For disposal considerations see section 13.  
For personal protection see section 8.

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## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Avoid formation of aerosol.  
Do not breathe vapours or spray mist.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Use explosion protected equipment.  
Keep away from sources of ignition - No smoking.  
No sparking tools should be used.  
Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps).  
Do not cut or weld on or near this container even when empty.  
Keep away from combustible material.

Temperature class : It is recommended to use electrical equipment of temperature group T3. However, autoignition can never be excluded.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No smoking.  
Keep in a well-ventilated place.

Electrical installations / working materials must comply with the technological safety standards.  
 Keep only in original container.  
 Store away from other materials.

Maximum storage temperature: : 25 °C  
 Other data : Maximum storage temperature is for quality only.

### 7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Dimethyl phthalate	131-11-3	TWA	5 mg/m3	2005-04-06	GB EH40	
		STEL	10 mg/m3	2005-04-06	GB EH40	
Methyl ethyl ketone peroxide;Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	1338-23-4	STEL	0.2 ppm 1.5 mg/m3	2005-04-06	GB EH40	
Methyl ethyl ketone	78-93-3	TWA	200 ppm 600 mg/m3	2000-06-16	2000/39/EC	
	Further information	:	Indicative			
		STEL	300 ppm 900 mg/m3	2000-06-16	2000/39/EC	
	Further information	:	Indicative			
		TWA	200 ppm 600 mg/m3	2005-04-06	GB EH40	
	Further information	:	Sk: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	300 ppm 899 mg/m3	2005-04-06	GB EH40	
	Further information	:	Sk: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			

ACGIH: American Conference of Governmental Industrial Hygienists  
 AGW: Arbeitsplatzgrenzwert  
 BEI: Biological Exposure Index  
 MAC: Maximum Allowable Concentration  
 NIOSH: National Institute for Occupational Safety and Health  
 OEL: OEL: Occupational exposure limit.  
 STEL: Short term exposure limit  
 TRGS: Technische Regel für Gefahrstoffe  
 TWA: Time Weighted Average

## Occupational exposure limits of decomposition products

Decomposition products	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Formic acid	64-18-6, 64-18-6	TWA	5 ppm 9 mg/m <sup>3</sup>	2006-02-09	2006/15/EC	
	Further information	:	Indicative			
		TWA	5 ppm 9.6 mg/m <sup>3</sup>	2005-04-06	GB EH40	
	Further information	:	16: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
Acetic acid	64-19-7, 64-19-7	TWA	10 ppm 25 mg/m <sup>3</sup>	2017-02-01	2017/164/EU	
	Further information	:	Indicative			
		STEL	20 ppm 50 mg/m <sup>3</sup>	2017-02-01	2017/164/EU	
	Further information	:	Indicative			
		STEL	20 ppm 50 mg/m <sup>3</sup>	2018-08-01	GB EH40	
		TWA	10 ppm 25 mg/m <sup>3</sup>	2018-08-01	GB EH40	
Propionic acid	79-09-4, 79-09-4	TWA	10 ppm 31 mg/m <sup>3</sup>	2000-06-16	2000/39/EC	
	Further information	:	Indicative			
		STEL	20 ppm 62 mg/m <sup>3</sup>	2000-06-16	2000/39/EC	
	Further information	:	Indicative			
		TWA	10 ppm 31 mg/m <sup>3</sup>	2005-04-06	GB EH40	
		STEL	15 ppm 46 mg/m <sup>3</sup>	2005-04-06	GB EH40	
Methyl ethyl ketone	78-93-3, 78-93-3	TWA	200 ppm 600 mg/m <sup>3</sup>	2000-06-16	2000/39/EC	
	Further information	:	Indicative			
		STEL	300 ppm 900 mg/m <sup>3</sup>	2000-06-16	2000/39/EC	
	Further information	:	Indicative			
		TWA	200 ppm 600 mg/m <sup>3</sup>	2005-04-06	GB EH40	
	Further information	:	Sk: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	300 ppm 899 mg/m <sup>3</sup>	2005-04-06	GB EH40	
	Further information	:	Sk: Can be absorbed through the skin. The assigned substances are those			

information	for which there are concerns that dermal absorption will lead to systemic toxicity.
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**Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Update
Methyl ethyl ketone	78-93-3	butan-2-one: 70 micromol per litre (Urine)	After shift	2011-12-18

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006**

Substance name	End Use	Exposure routes	Potential health effects	Value
Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	Consumers	Skin contact	Long-term systemic effects	0.54 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0.41 mg/m3
	Consumers	Ingestion	Long-term systemic effects	0.27 mg/kg
	Workers	Skin contact	Long-term systemic effects	1.08 mg/kg
	Workers	Inhalation	Long-term systemic effects	1.9 mg/m3
Methyl ethyl ketone	Workers	Inhalation	Long-term systemic effects	600 mg/m3
	Workers	Skin contact	Long-term systemic effects	1161 mg/kg
	Consumers	Inhalation	Long-term systemic effects	106 mg/m3
	Consumers	Skin contact	Long-term systemic effects	412 mg/kg
	Consumers	Ingestion	Long-term systemic effects	31 mg/kg

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006**

Substance name	Environmental Compartment	Value
Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	Fresh water	0.0056 mg/l
	Intermittent water	0.056 mg/l
	Marine water	0.00056 mg/l
	Fresh water sediment	0.019 mg/kg dry weight
	Marine sediment	0.0019 mg/kg dry weight
	Sewage treatment plant	1.2 mg/l
	Soil	0.00231 mg/kg dry weight
Methyl ethyl ketone	Fresh water	55.8 mg/l
	Marine water	55.8 mg/l
	Intermittent water	55.8 mg/l
	Sewage treatment plant	709 mg/l



	Fresh water sediment	284.74 mg/kg dry weight
	Marine sediment	284.74 mg/kg dry weight
	Soil	22.5 mg/kg dry weight
	Oral	1000 mg/kg food

## 8.2 Exposure controls

### Engineering controls

Explosion proof ventilation recommended.

Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

Respiratory protection : In the case of vapour or aerosol formation use a respirator with an approved filter.  
Filter A

Hand protection : Neoprene  
  
Nitrile rubber  
Breakthrough time is not determined for the product. Change gloves often!  
  
butyl-rubber  
Break through time:  $\geq 480$  min  
Glove thickness: 0.5 mm  
The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

Eye protection : Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### Environmental exposure controls

General advice : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

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Form	: liquid
Colour	: clear colourless
Odour	: Faint.
Odour Threshold	: No data available

**Safety data**

pH	: Weakly acidic
Melting point	: No data available
Boiling point/boiling range	: Decomposes below the boiling point.
Flash point	: Above the SADT value No flash point was obtained, but the product may release flammable vapour.
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: Decomposition products may be flammable.
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: 1 hPa at 84 °C
Relative vapour density	: No data available
Relative density	: 1.180 at 20 °C
Bulk density	: Not applicable
Water solubility	: at 20 °C partly miscible
Solubility in other solvents	: 20 °C Miscible with:, Phthalates
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: Test method not applicable

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 SADT. Contact with incompatible substances can cause decomposition below the SADT.
Self-Accelerating decomposition temperature (SADT)	:	60 °C
Viscosity, dynamic	:	24 mPa.s at 20 °C
Viscosity, kinematic	:	20.34 mm <sup>2</sup> /s at 20 °C
Explosive properties	:	Not explosive
Oxidizing properties	:	Not classified as oxidising.

## 9.2 Other information

Active Oxygen Content	:	8.8 - 9.0 %
Organic peroxides	:	30 - 37 %

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid	:	Confinement must be avoided. Heat, flames and sparks.
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### 10.5 Incompatible materials

Materials to avoid	:	Contact with the following incompatible materials will result in hazardous decomposition: Acids and bases Iron Copper Reducing agents Heavy metals Rust Do not mix with peroxide accelerators, unless under controlled
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processing.  
Use only stainless steel 316, PP, polyethylene or glass-lined equipment.  
For queries regarding the suitability of other materials please contact the supplier.

### 10.6 Hazardous decomposition products

Hazardous decomposition products	: Carbon oxides Formic acid Acetic acid Propionic acid Methyl ethyl ketone
Thermal decomposition	: 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 SADT. Contact with incompatible substances can cause decomposition below the SADT.
Self-Accelerating decomposition temperature (SADT)	: 60 °C

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Product information:**

Acute toxicity	: Harmful if swallowed or if inhaled.
Skin corrosion/irritation	: Causes severe burns.
Serious eye damage/eye irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Respiratory sensitisation: Not classified based on available information. Skin sensitisation: Not classified based on available information.
Germ cell mutagenicity	: Not classified based on available information.
Carcinogenicity	: Not classified based on available information.
Reproductive toxicity	: Not classified based on available information.
STOT - single exposure	: Not classified based on available information.
STOT - repeated exposure	: Not classified based on available information.
Aspiration hazard	: Not classified based on available information.
Further information	: No further data available.

**Test result**

Acute oral toxicity	: LD50 Oral: 1,017 mg/kg Species: rats Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 (Rat): 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50: 4,000 mg/kg Species: Rabbit Method: OECD Test Guideline 402
Skin corrosion/irritation	: Species: Rabbit Result: Sub-category 1B Classification: Category 1B Method: Tested according to Annex V of Directive 67/548/EEC.
Serious eye damage/eye irritation	: Species: Rabbit Result: Risk of serious damage to eyes. Classification: Risk of serious damage to eyes. Method: Tested according to Annex V of Directive 67/548/EEC.

**Toxicology data for the components:****Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane****Acute toxicity:**

Acute oral toxicity	: LD50: 1,017 mg/kg Species: Rat
Acute inhalation toxicity	: LC50 (Rat): 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50: 4,000 mg/kg Species: Rat
Skin corrosion/irritation	: Result: Causes burns.
Serious eye damage/eye irritation	: Result: Risk of serious damage to eyes.
Germ cell mutagenicity	
Genotoxicity in vitro	: Ames test Result: negative
Genotoxicity in vivo	: Not classified due to data which are conclusive although insufficient for classification.
Carcinogenicity	: No data available
Reproductive toxicity/Fertility	: Species: Rat, male and female Application Route: Oral

Dose: 0, 25, 50, 75 milligram per kilogram  
 General Toxicity - Parent: No observed adverse effect level:  
 50 mg/kg bw/day  
 General Toxicity F1: No observed adverse effect level F1: 50  
 mg/kg bw/day  
 Fertility: No observed adverse effect level Parent: 75 mg/kg  
 bw/day  
 Method: OECD Test Guideline 421  
 GLP: yes

STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard : No aspiration toxicity classification

### Methyl ethyl ketone

#### Acute toxicity:

Acute oral toxicity : LD50: 2,737 mg/kg  
 Species: Rat

Acute dermal toxicity : LD50: 6,480 mg/kg  
 Species: Rabbit

Skin corrosion/irritation : Result: Repeated exposure may cause skin dryness or cracking.  
 Moderately irritating.

Serious eye damage/eye irritation : Result: Irritating to eyes.

STOT - single exposure : Exposure routes: Inhalation  
 The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Aspiration hazard : No aspiration toxicity classification

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## SECTION 12: ECOLOGICAL INFORMATION

### Product information:

#### Ecotoxicology Assessment

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
 Toxic to aquatic life.

### 12.1 Toxicity

#### Test result

Toxicity to fish : LC50: 44.2 mg/l  
 Exposure time: 96 h  
 Species: Poecilia reticulata (guppy)  
 Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : 39 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 Test Type: Immobilization

Toxicity to algae : ErC50: 5.6 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (algae)  
Test Type: Growth inhibition

Toxicity to bacteria : EC10: 12 mg/l  
Exposure time: 0.5 h  
Species: activated sludge  
Test Type: Respiration inhibition  
Method: Domestic OECD Guideline 209

**Components:****Test result****Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane**

Toxicity to fish : LC50: 44.2 mg/l  
Exposure time: 96 h  
Species: Poecilia reticulata (guppy)  
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : 39 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Test Type: Immobilization

Toxicity to algae : ErC50: 5.6 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (algae)  
Test Type: Growth inhibition

Toxicity to bacteria : EC10: 12 mg/l  
Exposure time: 0.5 h  
Species: activated sludge  
Test Type: Respiration inhibition  
Method: Domestic OECD Guideline 209

**Methyl ethyl ketone**

Toxicity to fish : LC50: 3,220 mg/l  
Exposure time: 96 h  
Species: Lepomis macrochirus (Bluegill sunfish)

**12.2 Persistence and degradability**

**Product information** : No information available.

**Components:****Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane**

Biodegradability : Result: Readily biodegradable.  
Method: Closed Bottle test

**Methyl ethyl ketone**

Biodegradability : Result: Readily biodegradable.

**12.3 Bioaccumulative potential**

**Product information** : No information available.

**Components:**

**Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane**

Bioaccumulation : Bioconcentration factor (BCF): 10.3  
Not expected considering the low log Pow value.

**12.4 Mobility in soil**

**Product information** : No information available.

**12.5 Results of PBT and vPvB assessment****Product information:**

PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

**Product information** : No information available.

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**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Hazardous waste  
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not burn, or use a cutting torch on, the empty drum.  
Due to the high risk of contamination recycling/recovery is not recommended.  
Follow all warnings even after the container is emptied.

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**SECTION 14: TRANSPORT INFORMATION****14.1 UN number**

ADR : UN 3105  
RID : UN 3105  
IMDG-Code : UN 3105  
IATA-DGR : UN 3105

**14.2 Proper shipping name**

ADR : ORGANIC PEROXIDE TYPE D, LIQUID  
(Methyl ethyl ketone peroxide)  
RID : ORGANIC PEROXIDE TYPE D, LIQUID



**IMDG-Code** : (Methyl ethyl ketone peroxide)  
: ORGANIC PEROXIDE TYPE D, LIQUID  
(Methyl ethyl ketone peroxide)  
**IATA-DGR** : Organic peroxide type D, liquid  
(Methyl ethyl ketone peroxide)

**14.3 Transport hazard class**

**ADR** : 5.2  
**RID** : 5.2  
**IMDG-Code** : 5.2  
**IATA-DGR** : 5.2

**14.4 Packing group**

**ADR**  
Packing group : Not Assigned  
Classification Code : P1  
Labels : 5.2  
Tunnel restriction code : (D)  
**RID**  
Packing group : Not Assigned  
Classification Code : P1  
Hazard Identification Number : 539  
Labels : 5.2  
**IMDG-Code**  
Packing group : Not Assigned  
Labels : 5.2  
EmS Code : F-J, S-R

**IATA-DGR**  
Packing instruction (cargo aircraft) : 570  
Packing instruction (passenger aircraft) : 570  
Packing group : Not Assigned  
Labels : 5.2 (HEAT)

**14.5 Environmental hazards**

**ADR**  
Environmentally hazardous : no

**RID**  
Environmentally hazardous : no

**IMDG-Code**  
Marine pollutant : no

**IATA-DGR**  
Environmentally hazardous : no

**14.6 Special precautions for user**

Not applicable

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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## SECTION 15: REGULATORY INFORMATION

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES	Quantity 1 50 t	Quantity 2 200 t
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#### Notification status

TCSI	: YES. On the inventory, or in compliance with the inventory
TSCA	: YES. All substances listed as active on the TSCA inventory
AICS	: YES. On the inventory, or in compliance with the inventory
DSL	: YES. All components of this product are on the Canadian DSL
ENCS	: YES. On the inventory, or in compliance with the inventory
ISHL	: YES. On the inventory, or in compliance with the inventory
KECI	: YES. On the inventory, or in compliance with the inventory
PICCS	: YES. On the inventory, or in compliance with the inventory
IECSC	: YES. On the inventory, or in compliance with the inventory
NZIoC	: YES. On the inventory, or in compliance with the inventory

For explanation of abbreviation see section 16.

### 15.2 Chemical safety assessment

Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane : A Chemical Safety Assessment has been carried out for this substance.

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## SECTION 16: OTHER INFORMATION

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

H225	: Highly flammable liquid and vapour.
H240	: Heating may cause an explosion.
H242	: Heating may cause a fire.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H336	: May cause drowsiness or dizziness.

### Classification procedure:

Organic peroxides, D, H242, Based on product data or assessment  
 Acute toxicity, 4, H302, Based on product data or assessment  
 Acute toxicity, 4, H332, Based on product data or assessment  
 Skin corrosion, 1B, H314, Calculation method  
 Serious eye damage, 1, H318, Based on product data or assessment

### Full text of other abbreviations

2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2006/15/EC	:	Europe. Indicative occupational exposure limit values
2017/164/EU	:	Commission Directive (EU) 2017/164 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
2006/15/EC / TWA	:	Limit Value - eight hours
2017/164/EU / STEL	:	Short term exposure limit
2017/164/EU / TWA	:	Limit Value - eight hours
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

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

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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.

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