

# SAFETY DATA SHEET

## NOROX® KP-200



Version 1.1      Revision Date: 08.11.2024      SDS Number: 600000000308      Date of last issue: 27.01.2022  
Date of first issue: 27.01.2022

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### SECTION 1: Identification of the hazardous chemical and of the supplier

#### Product identifier

Product name : NOROX® KP-200

#### Recommended use of the chemical and restrictions on use

Recommended use : Hardener

#### Manufacturer or supplier's details

Company : United Initiators GmbH

Address : Dr.-Gustav-Adolph-Str. 3  
82049 Pullach

Emergency telephone number : +49 / 89 / 74422 – 0 (24 h)

E-mail address : contact@united-in.com

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### SECTION 2: Hazards identification

#### Classification of the hazardous chemical

Organic peroxides : Type D  
Acute toxicity (Oral) : Category 4  
Acute toxicity (Inhalation) : Category 4  
Skin corrosion/irritation : Category 1B  
Serious eye damage/eye irritation : Category 1

#### Label elements

Hazard pictograms : 

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:**

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P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P220 Keep/ Store away from clothing/ combustible materials.  
P234 Keep only in original container.  
P261 Avoid breathing mist or vapours.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
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 or doctor/ physician.  
P363 Wash contaminated clothing before reuse.

### Storage:

P405 Store locked up.  
P410 Protect from sunlight.  
P411 + P235 Store at temperatures not exceeding < 30 °C/ < 86 °F. Keep cool.  
P420 Store away from other materials.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

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### SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : Mixture  
Chemical nature : Organic Peroxide  
Liquid mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
dimethyl phthalate	131-11-3	>= 55 -< 65
2-Butanone, peroxide	1338-23-4	>= 30 -< 35

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Ethylene glycol	107-21-1	>= 5 -< 7.5
hydrogen peroxide	7722-84-1	>= 3 -< 5

### SECTION 4: First aid measures

- General advice : Take off contaminated clothing and shoes immediately.  
Call a physician immediately.  
Never give anything by mouth to an unconscious person.  
If unconscious, place in recovery position and seek medical advice.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.  
Symptoms of poisoning may appear several hours later.
- If inhaled : Administer oxygen if breathing is difficult or cyanosis is observed.  
Call a physician immediately.  
If breathed in, move person into fresh air.  
If not breathing, give artificial respiration.  
Respiratory tract burning possible if aerosols are inhaled.  
Call a physician or poison control centre immediately.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.
- In case of skin contact : If symptoms persist, call a physician.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Wash contaminated clothing before re-use.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Call a physician immediately.  
Rinse mouth thoroughly with water.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
If symptoms persist, call a physician.
- Most important symptoms : Harmful if swallowed or if inhaled.

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and effects, both acute and delayed

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

Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing

Notes to physician : Treat symptomatically and supportively.

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### SECTION 5: Firefighting measures

#### Extinguishing media

Suitable extinguishing media : Water spray jet  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

#### Physicochemical hazards arising from the chemical

Specific hazards during fire-fighting : Risk of explosion if heated under confinement.  
Possible emission of gaseous decomposition products may lead to a dangerous pressure build-up.  
Avoid confinement.  
Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite.  
The product burns violently.  
Flash back possible over considerable distance.  
Do not allow run-off from fire fighting to enter drains or water courses.  
Vapours may form explosive mixtures with air.  
The product will float on water and can be reignited on surface water.  
Cool closed containers exposed to fire with water spray.

#### Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use a water spray to cool fully closed containers.

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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.

Do not use a solid water stream as it may scatter and spread fire.  
Remove undamaged containers from fire area if it is safe to do so.  
Use water spray to cool unopened containers.

Hazchem Code : 2WE

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### SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures : Follow safe handling advice and personal protective equipment recommendations.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Use personal protective equipment.  
Remove all sources of ignition.  
Never return spills in original containers for re-use.  
Treat recovered material as described in the section "Disposal considerations".

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contact with incompatible substances can cause decomposition at or below SADT.  
Clear spills immediately.  
Suppress (knock down) gases/vapours/mists with a water spray jet.  
To clean the floor and all objects contaminated by this material, use plenty of water.  
Soak up with inert absorbent material.  
Isolate waste and do not reuse.  
Non-sparking tools should be used.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

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### SECTION 7: Handling and storage

#### Handling

##### Precautions for safe handling

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
Keep away from heat and sources of ignition.  
Use only explosion-proof equipment.  
Keep away from open flames, hot surfaces and sources of ignition.  
Keep away from combustible material.  
Do not spray on a naked flame or any incandescent material.
- Advice on safe handling : Open drum carefully as content may be under pressure.  
Protect from contamination.  
Do not swallow.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
Avoid formation of aerosol.  
Take precautionary measures against static discharges.  
Never return any product to the container from which it was originally removed.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Avoid confinement.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash thoroughly after handling.  
For personal protection see section 8.

#### Storage

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

- Conditions for safe storage : Store in original container.  
Keep containers tightly closed in a cool, well-ventilated place.  
Store in cool place.  
Keep in a well-ventilated place.  
Contamination may result in dangerous pressure increases - closed containers may rupture.  
Observe label precautions.  
Store in accordance with the particular national regulations.  
Avoid impurities (e.g. rust, dust, ash), risk of decomposition.  
Electrical installations / working materials must comply with the technological safety standards.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Materials to avoid : Keep away from combustible materials.

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Keep away from strong acids, bases, heavy metal salts and other reducing substances.

Recommended storage temperature : < 30 °C

Further information on storage stability : Stable under recommended storage conditions.

### SECTION 8: Exposure controls and personal protection

#### Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dimethyl phthalate	131-11-3	TWA	5 mg/m <sup>3</sup>	MY PEL
		TWA	5 mg/m <sup>3</sup>	ACGIH
2-Butanone, peroxide	1338-23-4	CEIL	0.2 ppm 1.5 mg/m <sup>3</sup>	MY PEL
		C	0.2 ppm	ACGIH
Ethylene glycol	107-21-1	CEIL (aerosol)	39.4 ppm 100 mg/m <sup>3</sup>	MY PEL
		TWA (Vapour)	25 ppm	ACGIH
		STEL (Vapour)	50 ppm	ACGIH
		STEL (Inhalable fraction, Aerosol only)	10 mg/m <sup>3</sup>	ACGIH
hydrogen peroxide	7722-84-1	TWA	1 ppm 1.4 mg/m <sup>3</sup>	MY PEL
		TWA	1 ppm	ACGIH

**Appropriate engineering controls** : Minimize workplace exposure concentrations.

#### Individual protection measures, such as personal protective equipment (PPE)

**Eye/face protection** : Ensure that eyewash stations and safety showers are close to the workstation location.  
Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.  
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.  
Tightly fitting safety goggles  
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.

**Skin protection** : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Additional body garments should be used based upon the

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task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.

Wear as appropriate:

Flame retardant antistatic protective clothing.

### Hand protection

Material : Nitrile rubber  
Break through time : < 30 min  
Glove thickness : 0.40 mm

Material : butyl-rubber  
Break through time : 480 min  
Glove thickness : 0.47 mm

Remarks : 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. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Filter type : ABEK-filter

Hygiene measures : Avoid contact with skin, eyes and clothing.  
Keep away from food and drink.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and immediately after handling the product.

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### SECTION 9: Physical and chemical properties

Appearance : liquid  
Colour : colourless, clear  
Odour : mint-like  
Odour Threshold : not determined  
pH : No data available  
Melting point/ range : No data available



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Boiling point/boiling range : Decomposition: Decomposes below the boiling point.

Flash point : > 65 °C  
Method: ISO 3679, closed cup

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Flammable liquid, Organic peroxide

Self-ignition : The substance or mixture is not classified as pyrophoric.

Upper explosion limit / Upper flammability limit : Upper explosion limit not determined

Lower explosion limit / Lower flammability limit : Lower explosion limit not determined

Vapour pressure : No data available

Relative vapour density : not determined

Relative density : not determined

Density : 1.12 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : slightly soluble

Solubility in other solvents : soluble  
Solvent: Phthalates

Partition coefficient: n-octanol/water : Pow: 1.54 (25 °C)(for a component of this mixture)

Self-Accelerating decomposition temperature (SADT) : 60 °C  
Method: UN-Test H.4  
SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.

Viscosity  
Viscosity, dynamic : 18 - 22 mPa.s

Viscosity, kinematic : not determined

Explosive properties : Not explosive In use, may form flammable/explosive vapour-air mixture.

Oxidizing properties : The substance or mixture is not classified as oxidizing.  
Organic peroxide

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Self-heating substances : The substance or mixture is not classified as self heating.

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### SECTION 10: Stability and reactivity

Reactivity : Stable under recommended storage conditions.  
Heating may cause a fire or explosion.

Chemical stability : Stable under recommended storage conditions.  
No decomposition if stored normally.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : Protect from contamination.  
Contact with incompatible substances can cause decomposition at or below SADT.  
Heat, flames and sparks.  
Avoid confinement.

Incompatible materials : Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents

Hazardous decomposition products : Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

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### SECTION 11: Toxicological information

Information on likely routes of exposure : None known.

#### Acute toxicity

Harmful if swallowed or if inhaled.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 1,308 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 4 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

#### Components:

##### dimethyl phthalate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : (Rat): > 10.4 mg/l  
Exposure time: 6 h

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Test atmosphere: vapour  
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rabbit): > 12,000 mg/kg

### **2-Butanone, peroxide:**

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg  
Method: Expert judgement

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Expert judgement  
Assessment: The component/mixture is moderately toxic after short term inhalation.  
Remarks: Based on data from similar materials

Acute dermal toxicity : Acute toxicity estimate: 2,500 mg/kg  
Method: Expert judgement

### **Ethylene glycol:**

Acute inhalation toxicity : LC50 (Rat): > 2.5 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Mouse): > 3,500 mg/kg

### **hydrogen peroxide:**

Acute oral toxicity : LD50 (Rat, male and female): 431 mg/kg  
Method: Expert judgement  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The component/mixture is moderately toxic after short term inhalation.  
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Acute dermal toxicity : LD50 (Rabbit): 9,200 mg/kg  
Remarks: No adverse effect has been observed in acute toxicity tests.

### **Skin corrosion/irritation**

Causes severe burns.

### **Product:**

Remarks : Extremely corrosive and destructive to tissue.

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### Components:

#### **dimethyl phthalate:**

Species : Rabbit  
Method : Draize Test  
Result : No skin irritation

#### **2-Butanone, peroxide:**

Species : Rabbit  
Result : Causes burns.

#### **Ethylene glycol:**

Species : Rabbit  
Result : No skin irritation

Remarks : May cause skin irritation in susceptible persons.

#### **hydrogen peroxide:**

Result : Corrosive after 3 minutes or less of exposure

#### **Serious eye damage/eye irritation**

Causes serious eye damage.

### Product:

Remarks : May cause irreversible eye damage.

### Components:

#### **dimethyl phthalate:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

#### **2-Butanone, peroxide:**

Result : Irreversible effects on the eye

#### **Ethylene glycol:**

Species : Rabbit  
Result : No eye irritation

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

#### **hydrogen peroxide:**

Result : Irreversible effects on the eye  
Remarks : hydrogen peroxide, 35%

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### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified due to lack of data.

#### Respiratory sensitisation

Not classified due to lack of data.

#### Components:

##### dimethyl phthalate:

Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitisation.

##### 2-Butanone, peroxide:

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

Assessment : Harmful if swallowed., Harmful if inhaled.

##### Ethylene glycol:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

Not classified due to lack of data.

#### Components:

##### dimethyl phthalate:

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: negative

Method: OECD Test Guideline 473  
Result: negative

Method: OECD Test Guideline 476  
Result: positive

Genotoxicity in vivo : Test Type: Chromosomal aberration  
Species: Rat  
Application Route: Intraperitoneal  
Result: negative

Test Type: Micronucleus test  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

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### **2-Butanone, peroxide:**

Genotoxicity in vitro : Method: OECD Test Guideline 473  
Result: negative

Method: OECD Test Guideline 471  
Result: negative

Method: OECD Test Guideline 476  
Result: negative

### **Ethylene glycol:**

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Chromosomal aberration  
Species: Rat  
Application Route: Oral  
Result: negative

### **hydrogen peroxide:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
positive  
Remarks: Information taken from reference works and the literature.

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: positive  
Remarks: Information taken from reference works and the literature.

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse (male and female)  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: hydrogen peroxide, 35%

Germ cell mutagenicity - Assessment : Based on available data, the classification criteria are not met.

### **Carcinogenicity**

Not classified due to lack of data.

### **Components:**

#### **dimethyl phthalate:**

Species : Rat  
Application Route : Skin contact

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Method : OECD Test Guideline 451  
Result : negative  
Remarks : Based on data from similar materials

### **2-Butanone, peroxide:**

Remarks : This information is not available.

### **Ethylene glycol:**

Species : Mouse  
Application Route : oral (feed)  
Exposure time : 2 Years  
NOAEL : 1,500 mg/kg bw/day

Species : Rat  
Application Route : oral (feed)  
NOAEL : 1,000 mg/kg food

### **hydrogen peroxide:**

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

### **Reproductive toxicity**

Not classified due to lack of data.

### **Components:**

#### **dimethyl phthalate:**

Effects on fertility : Species: Rat  
Application Route: oral (gavage)  
Method: OECD Test Guideline 440  
Result: negative

Effects on foetal development : Species: Rat  
Application Route: Ingestion  
General Toxicity Maternal: NOAEL: 840 mg/kg body weight  
Developmental Toxicity: NOAEL: 3,570 mg/kg body weight  
Method: OECD Test Guideline 414

#### **2-Butanone, peroxide:**

Effects on fertility : Species: Rat  
Application Route: oral (gavage)  
General Toxicity - Parent: NOAEL: 50 mg/kg body weight  
Method: OECD Test Guideline 421  
Result: negative

#### **Ethylene glycol:**

Effects on fertility : Species: Mouse  
Application Route: oral (drinking water)  
General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight  
General Toxicity F1: NOAEL: 1,000 mg/kg body weight

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Effects on foetal development : Species: Rabbit  
Application Route: oral (gavage)  
Duration of Single Treatment: 30 d  
General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight  
Developmental Toxicity: NOAEL: 2,000 mg/kg body weight

Species: Rat  
Application Route: oral (gavage)  
Duration of Single Treatment: 21 d  
General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight  
Developmental Toxicity: NOAEL: 500 mg/kg body weight

Species: Rat  
Application Route: oral (gavage)  
Duration of Single Treatment: 24 d  
General Toxicity Maternal: NOAEL: 250 mg/kg body weight  
Developmental Toxicity: NOAEL: 250 mg/kg body weight

Species: Mouse  
Application Route: oral (gavage)  
Duration of Single Treatment: 18 d  
General Toxicity Maternal: NOAEL: 1,500 mg/kg body weight  
Developmental Toxicity: NOAEL: 150 mg/kg body weight

Species: Mouse  
Application Route: Dermal  
Duration of Single Treatment: 18 d  
General Toxicity Maternal: NOAEL: 3,549 mg/kg body weight  
Developmental Toxicity: NOAEL: 3,549 mg/kg body weight

### hydrogen peroxide:

Reproductive toxicity - Assessment : No data available

### STOT - single exposure

Not classified due to lack of data.

### Components:

#### hydrogen peroxide:

Target Organs : Respiratory Tract  
Assessment : May cause respiratory irritation.

### STOT - repeated exposure

Not classified due to lack of data.

### Components:

#### Ethylene glycol:

Exposure routes : Oral  
Target Organs : Kidney  
Assessment : May cause damage to organs through prolonged or repeated



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exposure.

### hydrogen peroxide:

Remarks : No data available

### Repeated dose toxicity

#### Components:

#### dimethyl phthalate:

Species : Rat  
NOAEL : 770 mg/kg  
Application Route : Oral  
Exposure time : 16 w  
Method : OECD Test Guideline 408

#### 2-Butanone, peroxide:

Species : Rat  
NOAEL : 200 mg/kg  
Application Route : oral (gavage)  
Exposure time : 28 d  
Method : OECD Test Guideline 407

Repeated dose toxicity - Assessment : Harmful if swallowed., Harmful if inhaled.

#### Ethylene glycol:

Species : Rat  
NOAEL : 150 mg/kg  
Application Route : oral (feed)  
Exposure time : 1 y  
Method : OECD Test Guideline 452

Species : Dog  
NOAEL : > 4,000 mg/kg  
Application Route : Skin contact  
Exposure time : 4 w  
Method : OECD Test Guideline 410

#### hydrogen peroxide:

Species : Mouse, female  
NOAEL : 37 mg/kg  
Application Route : oral (drinking water)  
Exposure time : 90 d  
Remarks : hydrogen peroxide, 35%

Species : Mouse, males  
NOAEL : 26 mg/kg  
Application Route : oral (drinking water)  
Exposure time : 90  
Remarks : hydrogen peroxide, 35%

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### Aspiration toxicity

Not classified due to lack of data.

### Components:

#### dimethyl phthalate:

No aspiration toxicity classification

#### hydrogen peroxide:

Based on available data, the classification criteria are not met.

### Further information

#### Product:

Remarks : No data available

#### Components:

#### dimethyl phthalate:

Remarks : No data available

#### Ethylene glycol:

Remarks : No data available

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## SECTION 12: Ecological information

### Ecotoxicity

#### Components:

#### dimethyl phthalate:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 39 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 52 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 260 mg/l  
Exposure time: 72 h
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 11 mg/l  
Exposure time: 102 d  
Method: OECD Test Guideline 210
- LOEC (Oncorhynchus mykiss (rainbow trout)): 24 mg/l  
Exposure time: 102 d  
Method: OECD Test Guideline 210
- Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 9.6 mg/l

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aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d

LOEC (Daphnia magna (Water flea)): 23 mg/l  
Exposure time: 21 d

Toxicity to microorganisms

: EC50: 4,100 mg/l  
Exposure time: 0.5 h  
Method: OECD Test Guideline 209

### 2-Butanone, peroxide:

Toxicity to fish

: LC50 (Poecilia reticulata (guppy)): 44.2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

NOEC (Poecilia reticulata (guppy)): 18 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 26.7 mg/l  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): 5.6 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 2.1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms

: EC50 (Bacteria): 48 mg/l  
Exposure time: 0.5 h  
Method: OECD Test Guideline 209

### Ethylene glycol:

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): 72,860 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): > 5,000 mg/l  
Exposure time: 96 h

Toxicity to fish (Chronic tox-

: NOEC (Pimephales promelas (fathead minnow)): 15,380 mg/l

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- icity)      Exposure time: 7 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (water flea)): 8,590 mg/l  
Exposure time: 7 d
- hydrogen peroxide:**
- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 16.4 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia pulex (Water flea)): 2.4 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): 1.38 mg/l  
Exposure time: 72 h
- NOEC (Skeletonema costatum (marine diatom)): 0.63 mg/l  
Exposure time: 72 h
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.63 mg/l  
Exposure time: 21 d
- Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### Persistence and degradability

#### Components:

##### **dimethyl phthalate:**

- Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301E

##### **2-Butanone, peroxide:**

- Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D

##### **Ethylene glycol:**

- Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301A

##### **hydrogen peroxide:**

- Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Components:

##### **dimethyl phthalate:**

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**Bioaccumulation** : Bioconcentration factor (BCF): 57  
Method: OECD Test Guideline 305

**Partition coefficient: n-octanol/water** : log Pow: 1.54

**2-Butanone, peroxide:**

**Partition coefficient: n-octanol/water** : log Pow: < 0.3 (25 °C)

**Ethylene glycol:**

**Partition coefficient: n-octanol/water** : log Pow: -1.36

**hydrogen peroxide:**

**Partition coefficient: n-octanol/water** : log Pow: -1.57 (20 °C)  
Remarks: Information refers to the main component.  
Calculation

**Mobility in soil**

No data available

**Other adverse effects**

**Product:**

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

**Components:**

**dimethyl phthalate:**

**Additional ecological information** : No data available

**Ethylene glycol:**

**Additional ecological information** : No data available

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### SECTION 13: Disposal information

**Disposal methods**

**Waste from residues** : Dispose of wastes in an approved waste disposal facility.  
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.

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Contaminated packaging : Dispose of in accordance with local regulations.  
Clean container with water.  
Dispose of contents/ container to an approved waste disposal plant.  
Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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### SECTION 14: Transport information

#### International Regulations

##### UNRTDG

UN number : UN 3105  
Proper shipping name : ORGANIC PEROXIDE TYPE D, LIQUID  
(METHYL ETHYL KETONE PEROXIDE(S))  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
Environmentally hazardous : no

##### IATA-DGR

UN/ID No. : UN 3105  
Proper shipping name : Organic peroxide type D, liquid  
(Methyl ethyl ketone peroxide(s))  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : Organic Peroxides, Keep Away From Heat  
Packing instruction (cargo aircraft) : 570  
Packing instruction (passenger aircraft) : 570

##### IMDG-Code

UN number : UN 3105  
Proper shipping name : ORGANIC PEROXIDE TYPE D, LIQUID  
(METHYL ETHYL KETONE PEROXIDE(S))  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
EmS Code : F-J, S-R  
Marine pollutant : no

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

Not applicable for product as supplied.

Hazchem Code : 2WE

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### SECTION 15: Regulatory information

#### **Safety, health, and environmental regulations specific for the hazardous chemical**

Gefahrgruppe nach TRGS 741: Ib (German regulatory requirements)  
Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.  
Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

#### **The components of this product are reported in the following inventories:**

TCSI (TW)	:	On the inventory, or in compliance with the inventory
TSCA (US)	:	All substances listed as active on the TSCA inventory
AiIC (AU)	:	All components are listed on the inventory, regulatory obligations/restrictions apply
DSL (CA)	:	All components of this product are on the Canadian DSL
ENCS (JP)	:	On the inventory, or in compliance with the inventory
ISHL (JP)	:	On the inventory, or in compliance with the inventory
KECI (KR)	:	On the inventory, or in compliance with the inventory
PICCS (PH)	:	On the inventory, or in compliance with the inventory
IECSC (CN)	:	On the inventory, or in compliance with the inventory
TECI (TH)	:	On the inventory, or in compliance with the inventory

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### SECTION 16: Other information

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#### **Further information**

Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.  
These safety instructions also apply to empty packaging which may still contain product residues.  
The hazards on the label also apply to residues in the container.

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Date format : dd.mm.yyyy

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### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
MY PEL	:	Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
ACGIH / C	:	Ceiling limit
MY PEL / TWA	:	Eight-hour time-weighted average airborne concentration
MY PEL / CEIL	:	Ceiling limit airborne concentration

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; KECl - 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.

MY / EN



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