

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## CUROX<sup>®</sup>I-300

Version	Revision Date:	SDS Number:	Date of last issue: 2024/03/04
5.1	2024/07/15	600000000276	Date of first issue: 2017/07/05

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CUROX<sup>®</sup>I-300

Chemical nature : Organic Peroxide  
Liquid mixture

#### Manufacturer or supplier's details

Company : United Initiators (Shanghai) Co., Ltd

Address : Room 501, Bldg. 1, No. 1 Shangda Road  
Shanghai, China, 200444

Telephone : +86 21 61172758

Emergency telephone number : +86 21 61172762

E-mail address : cs-initiators.cn@united-in.com

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

Recommended use : Curing chemical

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>Appearance</b>	: liquid
<b>Colour</b>	: colourless
<b>Odour</b>	: characteristic

Flammable liquid and vapour. Heating may cause a fire. Harmful if swallowed or if inhaled. May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing cancer. Toxic to aquatic life with long lasting effects.

#### GHS Classification

Flammable liquids : Category 3

Organic peroxides : Type D

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Skin corrosion/irritation : Category 1C

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Serious eye damage/eye irritation : Category 1  
Skin sensitisation : Category 1  
Carcinogenicity : Category 2  
Aspiration hazard : Category 1  
Short-term (acute) aquatic hazard : Category 2  
Long-term (chronic) aquatic hazard : Category 2

### GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.  
H242 Heating may cause a fire.  
H302 + H332 Harmful if swallowed or if inhaled.  
H304 May be fatal if swallowed and enters airways.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P220 Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible materials.  
P233 Keep container tightly closed.  
P234 Keep only in original container.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing mist or vapours.

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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.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
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.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
P391 Collect spillage.

### Storage:

P405 Store locked up.  
P410 Protect from sunlight.  
P411 + P235 Store at temperatures not exceeding < 25 °C/ < 77 °F. Keep cool.  
P420 Store away from other materials.

### Disposal:

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

### Physical and chemical hazards

Flammable liquid and vapour. Heating may cause a fire.

### Health hazards

Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing cancer. May be fatal if swallowed and enters airways.

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### Environmental hazards

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
2-Pentanone, 4-methyl-, peroxide	37206-20-5	>= 45 -< 50
Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated	93685-81-5	>= 40 -< 45
Isobutyl methyl ketone	108-10-1	>= 7.5 -< 10
cyclohexyldimethylamine	98-94-2	>= 0.25 -< 1

## 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.  
No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.
- 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

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- 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.  
Contact a poison control center.  
Rinse mouth thoroughly with water.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed or if inhaled.  
May be fatal if swallowed and enters airways.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Suspected of causing cancer.  
Causes severe burns.  
sensitising effects
- 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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### 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray jet  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Risk of explosion if heated under confinement.  
Possible emission of gaseous decomposition products may
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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.

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

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## 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.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.
- 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.

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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.

Prevention of secondary hazards : Never return spills in original containers for re-use.  
Treat recovered material as described in the section "Disposal considerations".

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## 7. HANDLING AND STORAGE

### 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 exposure - obtain special instructions before use.  
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.

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Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Avoidance of contact : Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents

### Storage

Conditions for safe storage : Store in original container.  
Keep containers tightly closed in a cool, well-ventilated place.  
Store in cool 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.  
Keep away from strong acids, bases, heavy metal salts and other reducing substances.

Recommended storage temperature : < 25 °C

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

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Isobutyl methyl ketone	108-10-1	TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
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Isobutyl methyl ketone	108-10-1	methyl iso-butyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	1 mg/l	ACGIH BEI
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**Engineering measures** : Minimize workplace exposure concentrations.

### Personal protective equipment

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

Filter type : ABEK-filter

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 and body 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 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 : 120 min  
Glove thickness : 0.70 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 chemi-

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als of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : colourless

Odour : characteristic

Odour Threshold : not determined

pH : No data available

Melting point/range : < -25 °C

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

Flash point : 40 °C

Method: ISO 3679, closed cup

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Flammable liquid and vapour., Organic peroxide

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

Upper explosion limit / Upper : Upper explosion limit

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flammability limit	:	4 %(V) (for a component of this mixture)
Lower explosion limit / Lower flammability limit	:	Lower explosion limit 0.5 %(V) (for a component of this mixture)
Vapour pressure	:	1 hPa (20 °C) (for a component of this mixture)
Relative vapour density	:	not determined
Relative density	:	not determined
Density	:	0.89 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	:	
Water solubility	:	practically insoluble
Solubility in other solvents	:	Solvent: Alcohol Description: completely miscible  Solvent: Phthalates Description: completely miscible
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	not determined
Self-Accelerating decomposition temperature (SADT)	:	50 °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	:	5 mPa.s ( 20 °C)
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
Self-heating substances	:	Not applicable  The substance or mixture is not classified as self heating.

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Refractive index : 1.43 (20 °C)

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### 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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### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed or if inhaled.

#### Product:

Acute oral toxicity	:	LD50 (Rat): 1,575 mg/kg Method: OECD Test Guideline 401 Remarks: Information given is based on tests on the mixture itself.
Acute inhalation toxicity	:	LC50 (Rat): 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The component/mixture is moderately toxic after short term inhalation. Remarks: Information given is based on tests on the mixture itself.

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Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.  
Information given is based on tests on the mixture itself.

### Components:

#### **2-Pentanone, 4-methyl-, peroxide:**

Acute oral toxicity : LD50 (Rat): 1,575 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 1.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.

#### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,000 mg/m<sup>3</sup>  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
  
Remarks: No data available

Acute dermal toxicity : LD50 Dermal (Rabbit): 3,16 ml/kg  
Method: OECD Test Guideline 402  
Remarks: Based on data from similar materials

#### **Isobutyl methyl ketone:**

Acute oral toxicity : LD50 (Rat): 2,080 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 11 mg/l  
Exposure time: 4 h

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Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.

### **cyclohexyldimethylamine:**

Acute oral toxicity : LD50 (Rat): 272 - 289 mg/kg  
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 1.7 - 5.8 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat): 380 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The component/mixture is toxic after single contact with skin.

### **Skin corrosion/irritation**

Causes severe burns.

#### **Product:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 1 to 4 hours of exposure  
Remarks : Information given is based on tests on the mixture itself.  
  
Remarks : Extremely corrosive and destructive to tissue.

#### **Components:**

##### **2-Pentanone, 4-methyl-, peroxide:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 1 to 4 hours of exposure

##### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Result : Repeated exposure may cause skin dryness or cracking.

##### **Isobutyl methyl ketone:**

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Species : Rabbit  
Exposure time : 72 h  
Method : OECD Test Guideline 404  
Result : No skin irritation

Result : Repeated exposure may cause skin dryness or cracking.

### **cyclohexyldimethylamine:**

Result : Causes burns.

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

Causes serious eye damage.

#### **Product:**

Species : Rabbit  
Result : Risk of serious damage to eyes.  
Method : OECD Test Guideline 405  
Remarks : Information given is based on tests on the mixture itself.

Remarks : May cause irreversible eye damage.

#### **Components:**

##### **2-Pentanone, 4-methyl-, peroxide:**

Species : Rabbit  
Result : Risk of serious damage to eyes.  
Method : OECD Test Guideline 405

##### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Result : No eye irritation

##### **Isobutyl methyl ketone:**

Species : Rabbit  
Result : Mild eye irritation  
Method : OECD Test Guideline 405

##### **cyclohexyldimethylamine:**

Result : Corrosive

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified due to lack of data.

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### **Product:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.  
Remarks : Information given is based on tests on the mixture itself.

Remarks : Causes sensitisation.

### **Components:**

#### **2-Pentanone, 4-methyl-, peroxide:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.

#### **Isobutyl methyl ketone:**

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

#### **cyclohexyldimethylamine:**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Did not cause sensitisation on laboratory animals.

### **Germ cell mutagenicity**

Not classified due to lack of data.

### **Product:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Test system: Salmonella typhimurium  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Method: OECD Test Guideline 473  
Result: positive

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 476  
Result: negative



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Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

### Components:

#### **2-Pentanone, 4-methyl-, peroxide:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Test system: Salmonella typhimurium  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Method: OECD Test Guideline 473  
Result: positive

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

#### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Germ cell mutagenicity - Assessment : No known effect.

#### **Isobutyl methyl ketone:**

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

Method: OECD Test Guideline 476  
Result: Equivocal

Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Species: Mouse

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Application Route: Intraperitoneal  
Method: OECD Test Guideline 474  
Result: negative

### **cyclohexyldimethylamine:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

### **Carcinogenicity**

Suspected of causing cancer.

### **Product:**

Remarks : This information is not available.

### **Components:**

#### **2-Pentanone, 4-methyl-, peroxide:**

Remarks : This information is not available.

#### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Carcinogenicity - Assessment : No known effect.

#### **Isobutyl methyl ketone:**

Species : Mouse  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
NOAEL : 1.84 mg/l  
Method : OECD Test Guideline 451  
Result : Suspected of causing cancer.  
Target Organs : Liver

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
NOAEL : 1.84 mg/l  
Method : OECD Test Guideline 453  
Result : Suspected of causing cancer.  
Target Organs : Kidney

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

### **cyclohexyldimethylamine:**

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

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### Reproductive toxicity

Not classified due to lack of data.

#### Product:

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 200 mg/kg body weight  
General Toxicity F1: NOAEL: 600 mg/kg body weight  
Fertility: NOAEL: 600 mg/kg body weight  
Method: OECD Test Guideline 422  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Pre-natal  
Species: Rat, females  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 65 mg/kg body weight  
Developmental Toxicity: NOAEL: 200 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes  
Remarks: Based on data from similar materials

#### Components:

##### **2-Pentanone, 4-methyl-, peroxide:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 200 mg/kg body weight  
General Toxicity F1: NOAEL: 600 mg/kg body weight  
Fertility: NOAEL: 600 mg/kg body weight  
Method: OECD Test Guideline 422  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Pre-natal  
Species: Rat, females  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 65 mg/kg body weight  
Developmental Toxicity: NOAEL: 200 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes  
Remarks: Based on data from similar materials

##### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Reproductive toxicity - Assessment : No known effect.

##### **Isobutyl methyl ketone:**

Effects on fertility : Test Type: Multi-generation study  
Species: Rat  
Application Route: inhalation (vapour)  
General Toxicity - Parent: NOAEL: 4.1 mg/l

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General Toxicity F1: NOAEL: 4.1 mg/l  
Fertility: NOAEL: 8.1 mg/l  
Method: OECD Test Guideline 416

Effects on foetal development : Species: Rat  
Application Route: Inhalation  
General Toxicity Maternal: NOEC: 4.1 ppm  
Teratogenicity: NOEC: 4.1 ppm  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

### **cyclohexyldimethylamine:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.  
Did not show teratogenic effects in animal experiments.

### **STOT - single exposure**

Not classified due to lack of data.

### **Components:**

#### **Isobutyl methyl ketone:**

Target Organs : Central nervous system  
Assessment : May cause drowsiness or dizziness.  
Assessment : May cause respiratory irritation.

#### **cyclohexyldimethylamine:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### **STOT - repeated exposure**

Not classified due to lack of data.

### **Components:**

#### **Isobutyl methyl ketone:**

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

#### **cyclohexyldimethylamine:**

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

### **Repeated dose toxicity**

### **Components:**

#### **2-Pentanone, 4-methyl-, peroxide:**

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Species : Rat, male and female  
NOAEL : 150 mg/kg bw/day  
Exposure time : 90d  
Method : OECD Test Guideline 408  
GLP : yes  
Remarks : Based on data from similar materials

### Isobutyl methyl ketone:

Species : Rat  
NOAEL : 50 mg/kg  
LOAEL : 250 mg/kg  
Application Route : 1,000 mg/kg  
Exposure time : oral (gavage)  
Method : 13 w  
Method : OECD Test Guideline 408

### Aspiration toxicity

May be fatal if swallowed and enters airways.

### Product:

May be fatal if swallowed and enters airways.

### Components:

#### 2-Pentanone, 4-methyl-, peroxide:

May be fatal if swallowed and enters airways.

#### Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:

May be fatal if swallowed and enters airways.

#### Isobutyl methyl ketone:

Not classified due to data which are conclusive although insufficient for classification.

#### cyclohexyldimethylamine:

Not classified due to data which are conclusive although insufficient for classification.

### Further information

#### Product:

Remarks : Solvents may degrease the skin.

### Components:

#### Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:

Remarks : May cause headache and dizziness.

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1.89 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Information given is based on tests on the mixture itself.
- NOEC (Danio rerio (zebra fish)): 1.38 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Information given is based on tests on the mixture itself.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 4.48 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Information given is based on tests on the mixture itself.
- NOEC (Daphnia magna (Water flea)): 2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Information given is based on tests on the mixture itself.
- Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): 1.33 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Information given is based on tests on the mixture itself.
- NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.94 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Information given is based on tests on the mixture itself.
- Toxicity to microorganisms : EC10 (Bacteria): 12.8 mg/l  
Test Type: Respiration inhibition of activated sludge  
Method: OECD Test Guideline 209  
Remarks: Information given is based on tests on the mixture itself.

### Ecotoxicology Assessment

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Acute aquatic toxicity : Toxic to aquatic life.  
Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### Components:

#### **2-Pentanone, 4-methyl-, peroxide:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1.89 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
  
NOEC (Danio rerio (zebra fish)): 1.38 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 4.48 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
  
NOEC (Daphnia magna (Water flea)): 2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): 1.33 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
  
NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.94 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (Bacteria): 12.8 mg/l  
Test Type: Respiration inhibition of activated sludge  
Method: OECD Test Guideline 209

#### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 0.04 mg/l  
Exposure time: 48 h  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : IC50 (algae): > 0.04 mg/l  
Exposure time: 72 h  
Remarks: Information given is based on data obtained from similar substances.

### **Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

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Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

### Isobutyl methyl ketone:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 179 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 200 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Lemna gibba (gibbous duckweed)): > 146 mg/l  
End point: Growth rate  
Method: OECD Test Guideline 221

EC10 (Lemna gibba (gibbous duckweed)): > 146 mg/l  
Method: OECD Test Guideline 221

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 30 - 35 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 275 mg/l  
Exposure time: 16 h  
Method: DIN 38 412 Part 8

### cyclohexyldimethylamine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 31.58 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 75 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.5 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 0.6 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201



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Toxicity to microorganisms : EC10 (Pseudomonas putida): 137 mg/l  
Exposure time: 17 h

### Persistence and degradability

#### Product:

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D  
Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

#### Components:

##### **2-Pentanone, 4-methyl-, peroxide:**

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

##### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Biodegradability : Result: Not readily biodegradable.

##### **Isobutyl methyl ketone:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 83 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

##### **cyclohexyldimethylamine:**

Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Components:

##### **2-Pentanone, 4-methyl-, peroxide:**

Partition coefficient: n-octanol/water : log Pow: 4.2 (20 °C)  
Method: OECD Test Guideline 117

##### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Partition coefficient: n-octanol/water : log Pow: 5.94 - 6.16 (20 °C)  
Remarks: The value is calculated

##### **Isobutyl methyl ketone:**

Partition coefficient: n-octanol/water : log Pow: 1.9

##### **cyclohexyldimethylamine:**

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Bioaccumulation : Bioconcentration factor (BCF): 35.66  
Remarks: 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 with long lasting effects.

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## 13. DISPOSAL CONSIDERATIONS

### 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.

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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## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : UN 3105  
Proper shipping name : ORGANIC PEROXIDE TYPE D, LIQUID  
(METHYL ISOBUTYL KETONE PEROXIDE(S))  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
Environmentally hazardous : yes

#### IATA-DGR

UN/ID No. : UN 3105  
Proper shipping name : Organic peroxide type D, liquid  
(Methyl isobutyl ketone peroxide(s))  
Class : 5.2

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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 ISOBUTYL KETONE PEROXIDE(S))  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
EmS Code : F-J, S-R  
Marine pollutant : yes

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

Not applicable for product as supplied.

### National Regulations

#### GB 6944/12268

UN number : UN 3105  
Proper shipping name : ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ISOBUTYL KETONE PEROXIDE(S))  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
Marine pollutant : yes

### 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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## 15. REGULATORY INFORMATION

### National regulatory information

#### Gefahrgruppe nach TRGS 741: Ib (German regulatory requirements)

#### Law on the Prevention and Control of Occupational Diseases

#### Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : Listed

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)

No. / Code	Chemical name / Category	Threshold quantity
W5.4	Flammable liquids	5,000 t

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W7.2                      Organic peroxides                      50 t

### Measures on the Environmental Administration of New Chemical Substances Registration

Registration/Notification number                      :    HSR003191

Downstream users need to comply with the conditions of safe use of the chemical, understand the environmental and health hazard and risk management measures identified on the SDS as well as the local/national regulations concerning the chemical.

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

TCSI (TW)                      :    On the inventory, or in compliance with the inventory

DSL (CA)                      :    All components of this product are on the Canadian DSL

PICCS (PH)                      :    On the inventory, or in compliance with the inventory

IECSC (CN)                      :    On the inventory, or in compliance with the inventory

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## 16. OTHER INFORMATION

Revision Date                      :    2024/07/15

### 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                      :    yyyy/mm/dd

### Full text of other abbreviations

ACGIH                      :    USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI                      :    ACGIH - Biological Exposure Indices (BEI)

ACGIH / TWA                      :    8-hour, time-weighted average

ACGIH / STEL                      :    Short-term exposure limit

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AIIIC - 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; 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; 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; TECI - 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

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CN / EN