

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## CAROAT<sup>®</sup>

Version	Revision Date:	SDS Number:	Date of last issue: 2024/06/20
4.2	2024/06/20	600000000017	Date of first issue: 2016/10/05

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CAROAT<sup>®</sup>

Chemical nature : crystalline  
Solid

#### 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 61172758

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

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

Recommended use : Oxidizing agents

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>Appearance</b>	: solid
<b>Colour</b>	: white
<b>Odour</b>	: odourless

Harmful if swallowed. Causes severe skin burns and eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

#### GHS Classification

Acute toxicity (Oral) : Category 4

Skin corrosion/irritation : Category 1B

Serious eye damage/eye irritation : Category 1

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic : Category 3

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hazard

### GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H401 Toxic to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**

P260 Do not breathe dust.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor 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): 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.  
P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

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

### Physical and chemical hazards

Not classified based on available information.

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### Health hazards

Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.

### Environmental hazards

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

### Other hazards which do not result in classification

None known.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
pentapotassium bis(peroxymonosulphate) bis(sulphate)	70693-62-8	< 100
Dipotassium peroxodisulphate	7727-21-1	< 3

## 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.  
If breathed in, move person into fresh air.  
If not breathing, give artificial respiration.  
Respiratory tract burning possible if aerosols are inhaled.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- 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

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- 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 and effects, both acute and delayed : Harmful if swallowed.  
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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### 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Foam  
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 : Hazardous decomposition products may be formed under fire conditions (see section 10).  
  
Do not allow run-off from fire fighting to enter drains or water courses.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Collect contaminated fire extinguishing water separately. This
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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.  
Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.

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 : Clear spills immediately.  
To clean the floor and all objects contaminated by this material, use plenty of water.  
Soak up with inert absorbent material.  
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 : 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 : Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.

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Advice on safe handling : Avoid formation of respirable particles.  
Do not swallow.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash thoroughly after handling.  
For personal protection see section 8.

Avoidance of contact : Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents  
Avoid impurities (e.g. rust, dust, ash), risk of decomposition.  
  
Not applicable

### Storage

Conditions for safe storage : Keep in a dry place.  
Observe label precautions.  
Store in accordance with the particular national regulations.  
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 : Never allow product to get in contact with water during storage.

Recommended storage temperature : < 30 °C

Further information on storage stability : For quality reasons

No decomposition if stored normally.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Dipotassium peroxodisulphate	7727-21-1	TWA	0.1 mg/m <sup>3</sup> (Persulphate)	ACGIH

Engineering measures : Minimize workplace exposure concentrations.

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### Personal protective equipment

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

Filter type : Filter type P

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 : 480 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.

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

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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	:	solid
Colour	:	white
Odour	:	odourless
Odour Threshold	:	not determined
pH	:	2.3 Concentration: 10 g/l
Melting point/range	:	Decomposition: Decomposes below the melting point.
Boiling point/boiling range	:	not determined
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	does not ignite
Self-ignition	:	The substance or mixture is not classified as pyrophoric.
Upper explosion limit / Upper flammability limit	:	Upper explosion limit No data available
Lower explosion limit / Lower flammability limit	:	Lower explosion limit No data available
Vapour pressure	:	< 0.001 hPa (25 °C)
Relative vapour density	:	not determined



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Relative density	:	not determined
Density	:	ca. 2.35 g/cm <sup>3</sup> (20 °C)
Bulk density	:	ca. 1,100 kg/m <sup>3</sup>
Solubility(ies)	:	
Water solubility	:	ca. 300 g/l soluble (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	not determined
Self-Accelerating decomposition temperature (SADT)	:	> 80 °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	:	Not applicable
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	No oxidising effect.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Particle size	:	not determined
Particle Size Distribution	:	D10 = 89 µm Type of distribution: volume distribution Measurement technique: laser diffraction

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### 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under recommended storage conditions. No decomposition if stored normally.
Possibility of hazardous reac-	:	Even small amounts of moisture or impurities can noticeably

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tions		reduce the self-accelerating decomposition temperature (SADT). Avoid moisture.
Conditions to avoid	:	Protect from contamination. Protect from moisture.
Incompatible materials	:	Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents Avoid impurities (e.g. rust, dust, ash), risk of decomposition.  Not applicable
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.

#### Product:

Acute oral toxicity	:	LD50 (Rat): 500 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	:	LC0 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Expert judgement
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402

#### Components:

##### **pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Acute oral toxicity	:	LD50 (Rat): 500 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	:	LC0 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Expert judgement

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Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402

### Dipotassium peroxodisulphate:

Acute oral toxicity : LD50 (Rat, male): 742 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Expert judgement

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Expert judgement

### Skin corrosion/irritation

Causes severe burns.

#### Product:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Causes burns.

Remarks : Extremely corrosive and destructive to tissue.

#### Components:

##### pentapotassium bis(peroxymonosulphate) bis(sulphate):

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Causes burns.

##### Dipotassium peroxodisulphate:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

### Serious eye damage/eye irritation

Causes serious eye damage.

#### Product:

Species : Rabbit

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

Remarks : May cause irreversible eye damage.

### **Components:**

#### **pentapotassium bis(peroxymonosulphate) bis(sulphate):**

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

#### **Dipotassium peroxodisulphate:**

Species : Rabbit  
Result : Eye irritation  
Method : OECD Test Guideline 405

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Product:**

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.

Remarks : Inhalation  
: Expert judgement  
: Does not cause respiratory sensitisation.  
: Expert judgement

Test Type : Local lymph node assay (LLNA)  
: Mouse  
: OECD Test Guideline 442B  
: Does not cause skin sensitisation.

GLP : yes  
Remarks : Information given is based on tests on the mixture itself.

Assessment : Did not cause sensitisation on laboratory animals.

### **Components:**

#### **pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Exposure routes : Skin contact  
Species : Guinea pig

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Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 442B  
Result : Did not cause sensitisation on laboratory animals.

### Dipotassium peroxodisulphate:

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

Exposure routes : inhalation (dust/mist/fume)  
Result : May cause sensitisation by inhalation.  
Remarks : Expert judgement

### Germ cell mutagenicity

Not classified based on available information.

### Product:

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

Method: OECD Test Guideline 476  
Result: positive

Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

Test Type: In vivo mammalian alkaline comet assay  
Species: Rat (male)  
Application Route: Oral  
Method: OECD Test Guideline 489  
Result: negative

### Components:

#### pentapotassium bis(peroxymonosulphate) bis(sulphate):

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

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Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: Equivocal

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

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 490  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

Test Type: In vivo mammalian alkaline comet assay  
Species: Rat (male)  
Application Route: Oral  
Method: OECD Test Guideline 489  
Result: negative

### **Dipotassium peroxodisulphate:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative  
Remarks: Based on data from similar materials

### **Carcinogenicity**

Not classified based on available information.

### **Product:**

Remarks : This information is not available.

### **Components:**

#### **pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Remarks : This information is not available.

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### Dipotassium peroxodisulphate:

Species : Mouse  
Application Route : Skin contact  
Exposure time : 52 weeks  
Method : OECD Test Guideline 451  
Result : negative

### Reproductive toxicity

Not classified based on available information.

### Product:

### Components:

#### pentapotassium bis(peroxymonosulphate) bis(sulphate):

### Dipotassium peroxodisulphate:

Effects on fertility : Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 421  
Result: negative

Effects on foetal development : Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 421  
Result: negative

### STOT - single exposure

Not classified based on available information.

### Product:

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

### Components:

### Dipotassium peroxodisulphate:

Assessment : May cause respiratory irritation.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

### Product:

Species : Rat, male and female  
LOAEL : > 1,000 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Method : OECD Test Guideline 407

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Remarks : Subacute toxicity

Species : Rat, male and female  
LOAEL : 600 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408  
Remarks : Subchronic toxicity

### Components:

#### **pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Species : Rat, male and female  
LOAEL : > 1,000 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Method : OECD Test Guideline 407  
Remarks : Subacute toxicity

Species : Rat, male and female  
LOAEL : 600 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408  
Remarks : Subchronic toxicity

#### **Dipotassium peroxodisulphate:**

Species : Rat  
NOAEL : 1,000 mg/kg  
LOAEL : 3,000 mg/kg  
Application Route : Ingestion  
Exposure time : 90 d  
Method : OECD Test Guideline 408

#### **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

#### **Product:**

Remarks : No data available

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## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Product:**

Toxicity to fish : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.5 mg/l  
Exposure time: 96 h

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Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.5 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: 0.5 mg/l  
Exposure time: 37 d

Toxicity to microorganisms : EC50 (Bacteria): 100 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

### Components:

#### **pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 53 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.5 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.5 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

#### **Dipotassium peroxodisulphate:**

Toxicity to fish : LC50 (Scophthalmus maximus (turbot)): 107.6 mg/l

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Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 120 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Phaeodactylum): 320 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOEC (Phaeodactylum): 32 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 (Pseudomonas putida): 36 mg/l  
Exposure time: 18 h  
Remarks: Based on data from similar materials

### Persistence and degradability

#### Product:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

#### Components:

##### **pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

##### **Dipotassium peroxodisulphate:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

### Bioaccumulative potential

#### Components:

##### **Dipotassium peroxodisulphate:**

Partition coefficient: n-octanol/water : Remarks: Not applicable

### Mobility in soil

No data available

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### 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.  
Harmful 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.

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## 14. TRANSPORT INFORMATION

### International Regulations

#### **UNRTDG**

UN number : UN 3260  
Proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  
(Potassium Monopersulfate)  
Class : 8  
Packing group : II  
Labels : 8  
Environmentally hazardous : no

#### **IATA-DGR**

UN/ID No. : UN 3260  
Proper shipping name : Corrosive solid, acidic, inorganic, n.o.s.  
(Potassium Monopersulfate)  
Class : 8  
Packing group : II  
Labels : Corrosive  
Packing instruction (cargo aircraft) : 863  
Packing instruction (passenger aircraft) : 859

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### IMDG-Code

UN number : UN 3260  
Proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  
(Potassium Monopersulfate)  
Class : 8  
Packing group : II  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : no

### 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 3260  
Proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  
(Potassium Monopersulfate)  
Class : 8  
Packing group : II  
Labels : 8  
Marine pollutant : no

### 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

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

#### 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  
AIIIC (AU) : On the inventory, or in compliance with the inventory  
DSL (CA) : All components of this product are on the Canadian DSL  
ENCS (JP) : On the inventory, or in compliance with the inventory

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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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### 16. OTHER INFORMATION

Revision Date : 2024/06/20

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

AllC - 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 Chemi-

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cal 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.

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