

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Oxone™ PS-16 Monopersulfate Compound

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 02/27/2023 |
| 2.0     | 08/21/2025     | 203000015340 | Country / Language: US / EN    |

### SECTION 1. IDENTIFICATION

Product name : Oxone™ PS-16 Monopersulfate Compound

Product code : 000000000057751621

#### Manufacturer or supplier's details

Company : LANXESS Corporation  
Product Safety & Regulatory Affairs  
111 RIDC Park West Drive  
Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS  
(412) 809-1000  
lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or  
(703) 527-3887 (Outside U.S.A) and mention CCN12916.  
Lanxess Emergency Phone (866) 673 6350.

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

Recommended use : Cleaning agent  
Oxidizing agents

### SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**



#### Hazards for the product as supplied

|                       |                   |
|-----------------------|-------------------|
| Acute toxicity (Oral) | : Category 4      |
| Skin corrosion        | : Sub-category 1B |
| Serious eye damage    | : Category 1      |

#### Other hazards

None known.

#### GHS label elements

Hazard pictograms :  

Signal Word : Danger

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**Hazard Statements** : H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

**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.  
P280 Wear protective gloves, protective clothing, eye protection and 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.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Content of KMPS as at time of production.

#### Components

| Chemical name  | CAS No./Unique ID | Concentration (% w/w) |
|--|-------------------|-----------------------|
| pentapotassium bis(peroxymonosulphate) bis(sulphate) | 70693-62-8*       | >= 80 - <= 100        |
| potassium hydrogensulphate                           | 7646-93-7*        | >= 5 - <= 10          |
| dipotassium peroxodisulphate                         | 7727-21-1*        | >= 1 - <= 5           |

\* Indicates that the identifier is a CAS No.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Get medical attention if symptoms occur.  
Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If unconscious, place in recovery position and get medical attention immediately.  
If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.  
If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.  
Maintain open airway.  
Loosen tight clothing such as a collar, tie, belt or waistband.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 30 minutes.  
Get medical attention immediately.  
Remove contaminated clothing and shoes.  
Wash contaminated clothing before re-use.
- In case of eye contact : In case of contact, flush eyes with plenty of water for at least 30 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.  
Remove contact lenses.  
Get medical attention immediately.  
Chemical burns must be treated promptly by a physician.
- If swallowed : Get medical attention immediately.  
Rinse mouth with water.  
Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Do not induce vomiting unless directed to do by medical personnel.  
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.  
Give small amounts of water to drink.  
Never give anything by mouth to an unconscious person.  
Loosen tight clothing such as a collar, tie, belt or waistband.

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

- Symptoms : Skin: Reddening, burning, and possible permanent damage.  
Eye: Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.  
Ingestion: May cause burns to mouth, throat, and stomach.

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|                            |   |  |
|----------------------------|---|--|
| Effects                    | : | Harmful if swallowed.<br>Causes serious eye damage.<br>Causes severe burns.        |
| Protection of first-aiders | : | No action shall be taken involving any personal risk or without suitable training. |
| Notes to physician         | : | Treat symptomatically.   |

### SECTION 5. FIRE-FIGHTING MEASURES

|  |   |  |
|--|---|--|
| Suitable extinguishing media                   | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Can only be extinguished with large quantities of water.<br>Water fog   |
| Unsuitable extinguishing media                 | : | Carbon dioxide (CO <sub>2</sub> )<br>High volume water jet   |
| Specific hazards during fire fighting          | : | Do not allow run-off from fire fighting to enter drains or water courses.<br>The product itself does not burn.<br>Insufficient water may prolong fire event and gas evolution<br>Water run-off may be acidic<br>Do not use a solid water stream as it may scatter and spread fire.   |
| Hazardous combustion products                  | : | Sulfur oxides<br>Metal oxides<br>Carbon dioxide (CO <sub>2</sub> )<br>Carbon monoxide  |
| Specific extinguishing methods                 | : | Standard procedure for chemical fires.   |
| Further information                            | : | Fire can result from combustible or flammable materials that come into direct contact with decomposing product.<br>Copious amounts of water are required to dilute material.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.<br>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Run-off water may be highly acidic and should be collected and neutralized if possible. |
| Special protective equipment for fire-fighters | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.  |

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.  
Evacuate personnel to safe areas.  
Keep unnecessary and unprotected personnel from entering.  
Do not touch or walk through spilled material.  
Provide adequate ventilation.  
Put on appropriate personal protection equipment.
- 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 : Move containers from spill area.  
Avoid dust formation.  
Do not dry sweep.  
Vacuum or sweep up material and place in a designated, labeled waste container.  
Dispose of wastes in an approved waste disposal facility.  
Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems.

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Do not get in eyes or mouth or on skin.  
Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.  
Empty containers retain product residue; observe all precautions for product.  
Do not re-use empty containers.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.  
the particle size measurements of the product indicate that it is not respirable and therefore not bioavailable by the inhalation route.
- Conditions for safe storage : Store locked up.  
Contact with water/moisture causes formation of corrosive reaction products.  
Store in original container protected from direct sunlight in a

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dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.  
Keep containers sealed until ready for use.  
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Do not store in unlabeled containers.  
Empty containers retain residue and can be dangerous.  
Do not reuse container.  
Make sure all pipelines, tanks and equipment are leakproof.  
Never allow product to get in contact with water during storage.  
Protect from moisture.  
Do not store near combustible materials.  
Moisture may decompose this product and cause a violent reaction leading to fire and explosion.  
Do not allow cartons, cases or containers of product to become wet or store where they may be subject to either high humidity or moisture.

Materials to avoid : Keep away from alkalis.

Recommended storage temperature : < 90 °F / < 32 °C

Further information on storage stability : Keep in a dry place.

No decomposition if stored and applied as directed.

Protect from atmospheric moisture (hygroscopic).  
Maximum mass of this product during storage or processing at ambient temperature should not exceed 2045 kg (4500lb).

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients 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/m3 (Persulphate)                        | ACGIH    |
| Carbonic acid, magnesium salt (1:1) | 546-93-0  | TWA (total dust)              | 15 mg/m3                                       | OSHA Z-1 |
|                                     |           | TWA (respirable fraction)     | 5 mg/m3  | OSHA Z-1 |

**Engineering measures** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Personal protective equipment

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- |                          |   |  |
|--------------------------|---|--|
| Respiratory protection   | : | Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.   |
| Hand protection          | : |  |
| Material                 | : | Butyl rubber - IIR   |
| Wearing time             | : | < 60 min   |
| Remarks                  | : | After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations  |
| Eye protection           | : | Wear safety glasses with side shields or goggles.<br>If contact with product is possible, wear safety glasses with side shields.<br>If inhalation hazards exist, a full-face respirator may be required instead.   |
| Skin and body protection | : | Wear suitable protective clothing.   |
| Hygiene measures         | : | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Wash contaminated clothing before reusing.<br>Ensure that eyewash stations and safety showers are close to the workstation location. |

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- |                             |   |                                 |
|-----------------------------|---|---------------------------------|
| Appearance                  | : | granules                        |
| Physical state              | : | solid                           |
| Color                       | : | white                           |
| Odor                        | : | odorless                        |
| Odor Threshold              | : | No data available               |
| pH                          | : | 2.1<br>Concentration: 3 %       |
| Melting point/ range        | : | Decomposition: Yes              |
| Boiling point/boiling range | : | Decomposition at boiling point. |

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|  |   |  |
|--|---|--|
| Flash point                                      | : | No data available  |
| Evaporation rate                                 | : | No data available  |
| Flammability (solid, gas)                        | : | No data available  |
| Self-ignition                                    | : | No data available  |
| Burning number                                   | : | No data available  |
| Upper explosion limit / Upper flammability limit | : | No data available  |
| Lower explosion limit / Lower flammability limit | : | No data available  |
| Vapor pressure                                   | : | 0.0001 hPa (77 °F / 25 °C)                               |
| Relative vapor density                           | : | No data available  |
| Relative density                                 | : | No data available  |
| Density  | : | 2.35 g/cm <sup>3</sup> (68 °F / 20 °C)                   |
| Bulk density                                     | : | 1,100 - 1,400 kg/m <sup>3</sup>                          |
| Solubility(ies)                                  |   |  |
| Water solubility                                 | : | 297 - 357 g/l  |
| Solubility in other solvents                     | : | No data available  |
| Partition coefficient: n-octanol/water           | : | No data available  |
| Ignition temperature                             | : | No data available  |
| Decomposition temperature                        | : | > 122 °F / > 50 °C                                       |
| Viscosity  |   |  |
| Viscosity, dynamic                               | : | No data available  |
| Viscosity, kinematic                             | : | No data available  |
| Explosive properties                             | : | No data available  |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing. |
| Metal corrosion rate                             | : | Not corrosive to metals.                                 |
| Particle size                                    | : | No data available  |



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### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |   |
|------------------------------------|---|---|
| Reactivity                         | : | No specific test data related to reactivity available for this product or its ingredients.  |
| Chemical stability                 | : | Stable under normal conditions.   |
| Possibility of hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur.   |
| Conditions to avoid                | : | Do not expose to temperatures above: 50 °C  |
| Incompatible materials             | : | Halogenated compounds<br>Cyanides<br>Mixing with heavy metal salts such as those of cobalt, nickel, copper, or manganese can cause decomposition with release of oxygen and heat.<br>Oxidizing agents<br>Readily oxidizable organic compounds |
| Hazardous decomposition products   | : | Sulfur oxides<br>Oxygen   |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed.

#### Product:

|                           |   |  |
|---------------------------|---|--|
| Acute oral toxicity       | : | LD50 (Rat, male and female): 500 mg/kg<br>Method: OECD Test Guideline 423<br>GLP: Yes  |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): > 5 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Assessment: The substance or mixture has no acute inhalation toxicity<br>Remarks: Dosage caused no mortality<br>Expert judgment<br><br>Assessment: Not corrosive to the respiratory tract. |
| Acute dermal toxicity     | : | LD50 (Rat, male and female): > 5,000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: Yes<br>Remarks: Extrapolation according to Regulation (EC) No. 440/2008  |

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### Components:

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

|                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | LD50 (Rat, male and female): 500 mg/kg<br>Method: OECD Test Guideline 423   |
| Acute inhalation toxicity | : | LC0 (Rat, male): > 5 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Assessment: The substance or mixture has no acute inhalation toxicity<br>Remarks: Highest producible concentration. |
| Acute dermal toxicity     | : | LD50 (Rat, male and female): > 5,000 mg/kg<br>Method: OECD Test Guideline 402<br>Remarks: Extrapolation according to Regulation (EC) No. 440/2008   |

#### **potassium hydrogensulphate:**

|                     |   |                         |
|---------------------|---|-------------------------|
| Acute oral toxicity | : | LD50 (Rat): 2,340 mg/kg |
|---------------------|---|-------------------------|

#### **dipotassium peroxodisulphate:**

|                           |   |  |
|---------------------------|---|--|
| Acute oral toxicity       | : | LD50 (Rat): 700 mg/kg  |
| Acute inhalation toxicity | : | LC0 (Rat): > 2.95 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Remarks: Highest producible concentration. |
| Acute dermal toxicity     | : | LD50 (Rabbit): > 10,000 mg/kg  |

### **Skin corrosion/irritation**

Causes severe burns.

### Product:

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

### Components:

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

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

#### **potassium hydrogensulphate:**

|            |   |               |
|------------|---|---------------|
| Assessment | : | Causes burns. |
|------------|---|---------------|

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### dipotassium peroxodisulphate:

|         |   |                         |
|---------|---|-------------------------|
| Species | : | Rabbit                  |
| Method  | : | OECD Test Guideline 404 |
| Result  | : | Irritating to skin.     |

### Serious eye damage/eye irritation

Causes serious eye damage.

### Product:

|            |   |                                 |
|------------|---|---------------------------------|
| Species    | : | Rabbit                          |
| Assessment | : | Risk of serious damage to eyes. |

### Components:

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

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

### dipotassium peroxodisulphate:

|        |   |                     |
|--------|---|---------------------|
| Result | : | Irritating to eyes. |
|--------|---|---------------------|

### Respiratory or skin sensitization

#### Skin sensitization

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

#### Respiratory sensitization

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

### Product:

|                    |   |  |
|--------------------|---|--|
| Routes of exposure | : | Skin contact                                       |
| Species            | : | Guinea pig   |
| Method             | : | OECD Test Guideline 406                            |
| Result             | : | Did not cause sensitization on laboratory animals. |
| GLP                | : | Yes  |

|                    |   |   |
|--------------------|---|---|
| Routes of exposure | : | Inhalation                                |
| Species            | : | Mammal - species unspecified              |
| Result             | : | Does not cause respiratory sensitization. |
| Remarks            | : | Expert judgment                           |

### Components:

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

|                    |   |                                    |
|--------------------|---|------------------------------------|
| Routes of exposure | : | Skin contact                       |
| Species            | : | Guinea pig                         |
| Method             | : | OECD Test Guideline 406            |
| Result             | : | Does not cause skin sensitization. |

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### dipotassium peroxodisulphate:

Routes of exposure : Inhalation  
Species : Mammal - species unspecified  
Result : May cause sensitization by inhalation.

Routes of exposure : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitization by skin contact.

### Germ cell mutagenicity

Not classified due to lack of data.

### Components:

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

Genotoxicity in vitro : Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: positive  
GLP: Yes

Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: Yes

Test system: Mammalian-Human  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: positive  
GLP: Yes

Genotoxicity in vivo : Species: Mammalian-Animal  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

### dipotassium peroxodisulphate:

Genotoxicity in vitro : Remarks: Not mutagenic in a standard battery of genetic toxicological tests.

### Carcinogenicity

Not classified due to lack of data.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is

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|| identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified due to lack of data.

### Components:

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

Effects on fetal development : Remarks: No teratogenic or fetotoxic effects were found at all dose levels tested.

### STOT-single exposure

Not classified due to lack of data.

### Components:

#### potassium hydrogensulphate:

Assessment : May cause respiratory irritation.

#### dipotassium peroxodisulphate:

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Not classified due to lack of data.

### Repeated dose toxicity

### Components:

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

|                     |                           |
|---------------------|---------------------------|
| Species             | : Rat, male and female    |
| LOAEL               | : > 1,000 mg/kg           |
| Application Route   | : Oral                    |
| Exposure time       | : 28 d                    |
| Number of exposures | : 7 days/week             |
| Method              | : OECD Test Guideline 407 |
| Remarks             | : Subacute toxicity       |

|                     |                           |
|---------------------|---------------------------|
| Species             | : Rat, male and female    |
| LOAEL               | : 600 mg/kg               |
| Application Route   | : Oral                    |
| Exposure time       | : 90 d                    |
| Number of exposures | : 7 days/week             |
| Method              | : OECD Test Guideline 408 |
| Remarks             | : Subchronic toxicity     |

### Aspiration toxicity

Not classified due to lack of data.

### Further information

### Product:

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Remarks : No data available

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### 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  
GLP: Yes  
Remarks: Fresh water

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  
GLP: Yes  
Remarks: Fresh water

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.5 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water

##### **dipotassium peroxodisulphate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 76.3 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 120 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): 83.7 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

#### **Ecotoxicology Assessment**

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

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### Persistence and degradability

#### Components:

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

Biodegradability : Result: Expert judgement: not chronically bioavailable in the aquatic environment  
Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

##### **dipotassium peroxodisulphate:**

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

### Bioaccumulative potential

#### Components:

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

Partition coefficient: n-octanol/water : log Pow: < 0.3  
Method: OECD Test Guideline 117

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

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste from residues : Waste should be dissolved, diluted, and disposed of in accordance with federal, state, and local regulations.  
Solutions of greater than 3% of this product will have a pH less than 2.0 and may be considered RCRA hazardous, due to the low pH.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 3260  
Proper shipping name : Corrosive solid, acidic, inorganic, n.o.s.  
(MONOPERSULFATE COMPOUND)  
Class : 8  
Packing group : II  
Labels : 8  
:



Packing instruction (cargo aircraft) : 863: 50.00 KG  
Packing instruction (passenger aircraft) : 859: 15.00 KG

##### IMDG-Code

UN number : UN 3260  
UN proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  
(MONOPERSULFATE COMPOUND)  
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.

#### Domestic regulation

##### 49 CFR

UN/ID/NA number : UN 3260  
Proper shipping name : Corrosive solid, acidic, inorganic, n.o.s.  
(MONOPERSULFATE COMPOUND)  
Class : 8  
Packing group : II  
Labels : 8  
:



ERG Code : 154  
Marine pollutant : no



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### Hazard and Handling Notes

Corrosive.  
Keep dry.  
Keep separated from foodstuffs

### 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.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### Massachusetts Right To Know

|                                     |           |
|-------------------------------------|-----------|
| dipotassium peroxodisulphate        | 7727-21-1 |
| Carbonic acid, magnesium salt (1:1) | 546-93-0  |

#### Pennsylvania Right To Know

|  |            |
|--|------------|
| pentapotassium bis(peroxymonosulphate) bis(sulphate) | 70693-62-8 |
| potassium hydrogensulphate                           | 7646-93-7  |
| dipotassium peroxodisulphate                         | 7727-21-1  |

### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### TSCA inventory

TSCA : All substances listed as active on the TSCA inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

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## Oxone™ PS-16 Monopersulfate Compound

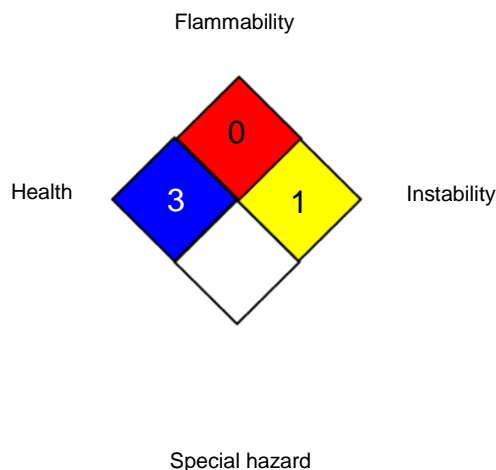
|         |                |              |                                |
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No substances are subject to TSCA 12(b) export notification requirements.

### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA 704:



##### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | / | 3 |
| FLAMMABILITY    |   | 0 |
| PHYSICAL HAZARD |   | 1 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

|                |   |  |
|----------------|---|--|
| ACGIH          | : | USA. ACGIH Threshold Limit Values (TLV)  |
| OSHA Z-1       | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| ACGIH / TWA    | : | 8-hour, time-weighted average  |
| OSHA Z-1 / TWA | : | 8-hour time weighted average   |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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 Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population;

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LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

Revision Date : 08/21/2025

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.

US / EN