

SAFETY DATA SHEET

Oxone™ PS-16 Monopersulfate Compound



Version	Revision Date:	SDS Number:	Date of previous issue: 12/04/2018
2.0	01/04/2019	103000008262	Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : Oxone™ PS-16 Monopersulfate Compound

Material number : 57747505

Recommended use : Cleaning agent
Oxidizing agents

Manufacturer or supplier's details

Supplier : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
PittsburghPA 15275-1112
USA

Telephone : +1800LANXESS
+14128091000 (international)

Emergency telephone : CHEMTREC (800) 424 9300
International (703) 527 3887
Lanxess Emergency Phone: (866) 673 6350

SECTION 2. HAZARDS IDENTIFICATION



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

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :  

Signal Word : Danger

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

Precautionary Statements : **Prevention:**
Do not breathe dusts or mists.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

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Response:

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
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.
Wash contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

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

Hazard Not Otherwise Classified (HNOC)

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
pentapotassium bis(peroxymonosulphate) bis(sulphate)	70693-62-8	>= 90 - <= 100
potassium hydrogen sulphate	7646-93-7	>= 3 - < 5
Dipotassium peroxodisulphate	7727-21-1	>= 1 - < 5
dipotassium disulphate	7790-62-7	>= 1 - < 3

Content of KMPS as at time of production., Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this material 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.

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- 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.
- Effects : Harmful if swallowed.
Causes serious eye damage.
Causes severe burns.
- Notes to physician : No special actions required.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : In case of fire, use water spray (fog), foam or dry chemical.

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- | | |
|--|---|
| Unsuitable extinguishing media | : Carbon dioxide (CO ₂)
High volume water jet |
| Specific hazards during fire fighting | : Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : Sulfur oxides
Metal oxides
Carbon dioxide (CO ₂)
Carbon monoxide |
| Further information | : 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. |
| 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. |

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 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. |
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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 : Protect from moisture.

Store locked up.
Contact with water/moisture causes formation of corrosive reaction products.
Store in original container protected from direct sunlight in a 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.

Recommended storage temperature : < 122 °F (< 50 °C)

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

No decomposition if stored and applied as directed.

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/m ³ (Persulphate)	ACGIH
Carbonic acid, magnesium salt (1:1)	546-93-0	TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	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.

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Personal protective equipment

- 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
- Eye protection : Wear safety glasses with side shields or goggles.
If contact with product is possible, wear safety glasses with side shields.
If inhalation hazards exist, a full-face respirator may be required instead.
- Skin and body protection : Wear suitable protective clothing.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : solid
- Appearance : granular
- Color : white
- Odor : odorless
- Odor Threshold : No data available
- pH : 2.1
Concentration: 3 %
- Melting point/range : Decomposition: yes
- Boiling point/boiling range : No data available
- Flash point : No data available
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit : No data available

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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 ³ (68 °F (20 °C))
Bulk density	:	1,100 - 1,400 kg/m ³
Solubility(ies)		
Water solubility	:	297 - 357 g/l
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	No data available
Decomposition temperature	:	> 122 °F (> 50 °C)
Viscosity	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
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 Cyanides Metal salt.
Hazardous decomposition products	:	Sulfur oxides Oxygen

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

Acute toxicity

Harmful if swallowed.

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Product:

- Acute oral toxicity : LD50 (Rat, male and female): 500 mg/kg
Method: OECD Test Guideline 423
GLP: yes
- Acute inhalation toxicity : LC50 (Rat, male and female): > 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: the particle size measurements of the product indicate that it is not respirable and therefore not bioavailable by the inhalation route.
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

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

- Acute oral toxicity : LD50 (Rat, male and female): 500 mg/kg
Method: OECD Test Guideline 423
- Acute inhalation toxicity : LC0 (Rat, male): > 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: Highest producible concentration.
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

potassium hydrogen sulphate:

- 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
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Highest producible concentration.

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Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

dipotassium disulphate:

Acute oral toxicity : LD50 (Rat, male): 2,140 mg/kg
Method: OECD Test Guideline 401
Remarks: Test results on an analogous product

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Assessment: The component/mixture is toxic after short term inhalation.

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 hydrogen sulphate:

Assessment: Causes burns.

Dipotassium peroxodisulphate:

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

dipotassium disulphate:

Assessment: Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

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

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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.

dipotassium disulphate:

Assessment: Risk of serious damage to eyes.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

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

Method: Expert judgment

Result: Does not cause respiratory sensitization.

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.

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.

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Germ cell mutagenicity

Not classified based on available information.

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 based on available information.

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 identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

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

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

STOT-single exposure

Not classified based on available information.

Components:

potassium hydrogen sulphate:

Assessment: May cause respiratory irritation.

Dipotassium peroxodisulphate:

Assessment: May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

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 based on available information.

Further information

Product:

Remarks: No data available

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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 : 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 : 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.

dipotassium disulphate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 680 mg/l
Exposure time: 96 h
Remarks: Fresh water

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 720 mg/l
Exposure time: 48 h
Remarks: Fresh water

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 1,492 mg/l
Exposure time: 96 h
Remarks: Fresh water

EC10 (Pseudokirchneriella subcapitata (microalgae)): 656 mg/l
Exposure time: 96 h
Remarks: Fresh water

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): > 595 mg/l
Exposure time: 7 Days
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (Water flea)): 790 mg/l
Exposure time: 7 Days
Remarks: Fresh water

Persistence and degradability

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Biodegradability : Result: 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.

dipotassium disulphate:

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

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Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

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)

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

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

DOT

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



Marine pollutant : no

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 (passen-	: 859: 15.00 KG

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ger aircraft)

Environmentally hazardous : no

IMDG-Code

UN number : UN 3260

Proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(MONOPERSULFATE COMPOUND)

Class : 8

Packing group : II

Labels : 8



Marine pollutant : no

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

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

CERCLA

None

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	>= 1 - < 5
Carbonic acid, magnesium salt (1:1)	546-93-0	>= 1 - < 5

Pennsylvania Right To Know

pentapotassium bis(peroxymonosulphate)	70693-62-8	>= 90 - < 100
bis(sulphate)		
potassium hydrogen sulphate	7646-93-7	>= 3 - < 5
Dipotassium peroxodisulphate	7727-21-1	>= 1 - < 3

California Prop. 65

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

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TSCA inventory

TSCA : On TSCA Inventory

TSCA list

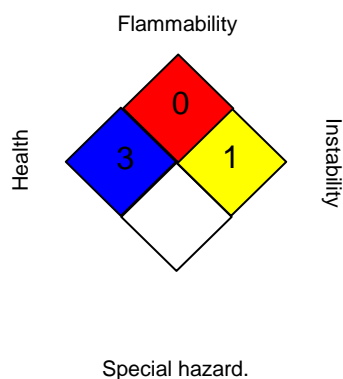
No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

Further information

NFPA:



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.

LANXESS' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

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