

## PERODOX 301

Version 4.15      Revision Date: 04/15/2025      Market/LAN./Code US/EN/500W      Date of last issue:01/07/2025  
Date of first issue:04/25/2017

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### SECTION 1. IDENTIFICATION

Product name : PERODOX 301

#### Manufacturer or supplier's details

Company name of supplier : Shandong Do Sender Chemicals Co.,Ltd.  
Room 1007, South Office Building, Jinshi International Plaza,  
No. 157, Jिंगgangshan Road,Qingdao,  
CN

Telephone : +86 532 8591 3578  
E-mail address : msds@dosenderchem.com.cn  
Emergency telephone : +86 532 8388 9090

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

Recommended use : Polymerization initiator

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### SECTION 2. HAZARDS IDENTIFICATION

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

Flammable liquids : Category 4

Organic peroxides : Type D

Skin irritation : Category 2

Skin sensitization : Category 1

Aspiration hazard : Category 1

#### Other hazards

None known.

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H227 Combustible liquid.  
H242 Heating may cause a fire.  
H304 May be fatal if swallowed and enters airways.

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H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.

Precautionary Statements :

**Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P234 Keep only in original packaging.  
 P235 Keep cool.  
 P240 Ground and bond container and receiving equipment.  
 P261 Avoid breathing mist or vapors.  
 P264 Wash skin thoroughly after handling.  
 P272 Contaminated work clothing must not be allowed out of the workplace.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P302 + P352 IF ON SKIN: Wash with plenty of water.  
 P331 Do NOT induce vomiting.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.  
 P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

**Storage:**

P403 Store in a well-ventilated place.  
 P405 Store locked up.  
 P410 Protect from sunlight.  
 P420 Store separately.

**Disposal:**

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

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

Chemical name	CAS No./Unique ID	Classification	Concentration (% w/w)	Trade secret
3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-	24748-23-0*	Org. Perox. B; H241 Skin Irrit. 2; H315	40 - 42	-

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triperoxonane		Skin Sens. 1; H317 Asp. Tox. 1; H304		
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	-	Flam. Liq. 4; H227 Asp. Tox. 1; H304	40 - 42	-
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	64742-48-9*	Flam. Liq. 4; H227 Asp. Tox. 1; H304	17 - 18	-
Paraffin waxes and Hydrocarbon waxes	8002-74-2*	;	1 - 3	-

\* Indicates that the identifier is a CAS No.

**The following substances have multiple CAS-number**

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics : 64742-47-8  
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics : 90622-58-5

**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.

If inhaled : If breathed in, move person into fresh air.  
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Rinse immediately with plenty of water.  
If skin irritation persists, call a physician.

In case of eye contact : Rinse with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

Most important symptoms and effects, both acute and delayed : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause an allergic skin reaction.

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Notes to physician : Treat symptomatically.

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**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : CAUTION: reignition may occur.  
Supports combustion.  
Do not use a solid water stream as it may scatter and spread fire.  
Water spray may be ineffective unless used by experienced firefighters.  
Do not allow run-off from fire fighting to enter drains or water courses.  
Hazardous decomposition products formed under fire conditions.
- Hazardous combustion products : Fire will produce smoke containing hazardous combustion products (see section 10).
- Further information : Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Wear respiratory protection.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.  
Evacuate personnel to safe areas.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
Prevent unauthorized persons entering the zone.
- Environmental precautions : Prevent product from entering drains.  
Discharge into the environment must be avoided.

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Methods and materials for containment and cleaning up : Soak up with inert absorbent material and dispose of as hazardous waste.  
Use only inert inorganic material such as vermiculite or perlite as absorbent.  
Keep mixture of absorbent material and spilled product wetted with water.  
Confinement must be avoided.  
Never return spills in original containers for re-use.

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Use explosion protected equipment.  
Avoid formation of aerosol.  
Keep away from sources of ignition - No smoking.  
No sparking tools should be used.  
Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps).  
Do not cut or weld on or near this container even when empty.  
Take measures to prevent the build up of electrostatic charge.  
Keep away from combustible material.

Advice on safe handling : For personal protection see section 8.  
Avoid formation of aerosol.  
Do not breathe vapors or spray mist.  
Avoid contact with skin, eyes and clothing.  
Smoking, eating and drinking should be prohibited in the application area.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Prevent unauthorized access.  
No smoking.  
Keep in a well-ventilated place.  
Electrical installations / working materials must comply with the technological safety standards.  
Keep only in original container.  
Store away from other materials.

Further information on storage stability : If product freezes or separates, contact the manufacturer.  
  
Maximum storage temperature is for quality only.

Minimum storage temperature: : Avoid temperatures below:  
10 °C (50 °F)

Maximum storage temperature: : 40 °C (104 °F)

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	927-676-8	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
Paraffin waxes and Hydrocarbon waxes	8002-74-2	TWA (Fumes)	2 mg/m <sup>3</sup>	ACGIH
		TWA (Fumes)	2 mg/m <sup>3</sup>	NIOSH REL
		TWA (Fumes)	2 mg/m <sup>3</sup>	OSHA P0

#### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methyl acetate	79-20-9	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 610 mg/m <sup>3</sup>	NIOSH REL
		ST	250 ppm 760 mg/m <sup>3</sup>	NIOSH REL
		TWA	200 ppm 610 mg/m <sup>3</sup>	OSHA Z-1
		STEL	250 ppm 760 mg/m <sup>3</sup>	OSHA P0
		TWA	200 ppm 610 mg/m <sup>3</sup>	OSHA P0
Ethyl acetate	141-78-6	TWA	400 ppm	ACGIH
		TWA	400 ppm 1,400 mg/m <sup>3</sup>	NIOSH REL
		TWA	400 ppm 1,400 mg/m <sup>3</sup>	OSHA Z-1
		TWA	400 ppm 1,400 mg/m <sup>3</sup>	OSHA P0

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Ethane	74-84-0	TWA	0.1 mg/m3 (Formaldehyde)	OSHA P0
		TWA	0.1 mg/m3 (Formaldehyde)	NIOSH REL
Methyl ethyl ketone	78-93-3	TWA	75 ppm	ACGIH
		STEL	150 ppm	ACGIH
		TWA	200 ppm 590 mg/m3	NIOSH REL
		ST	300 ppm 885 mg/m3	NIOSH REL
		TWA	200 ppm 590 mg/m3	OSHA Z-1
		TWA	200 ppm 590 mg/m3	OSHA P0
		STEL	300 ppm 885 mg/m3	OSHA P0
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m3	NIOSH REL
		ST	30,000 ppm 54,000 mg/m3	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m3	OSHA Z-1
		TWA	10,000 ppm 18,000 mg/m3	OSHA P0
		STEL	30,000 ppm 54,000 mg/m3	OSHA P0

**Engineering measures** : Explosion proof ventilation recommended.  
Effective exhaust ventilation system

**Personal protective equipment**

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In the case of vapor or aerosol formation use a respirator with an approved filter.  
Filter A

Hand protection  
Material : Neoprene

Material : Nitrile rubber

Eye protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.

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When using do not smoke.  
Wash hands before breaks and at the end of workday.  
Wash contaminated clothing before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear, colorless
Odor	:	mild
Odor Threshold	:	No data available
pH	:	6.7 neutral
Melting point	:	$\leq 50$ °F / $\leq 10$ °C
Boiling point/boiling range	:	Decomposes below the boiling point.
Flash point	:	174 °F / 79 °C  Method: closed cup
Evaporation rate	:	No data available
Flammability (liquids)	:	Decomposition products may be flammable.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	< 1 hPa (68 °F / 20 °C)
Relative vapor density	:	No data available
Relative density	:	0.875 (68 °F / 20 °C)
Bulk density	:	Not applicable
Solubility(ies)	:	
Water solubility	:	immiscible (68 °F / 20 °C)
Solubility in other solvents	:	Description: Soluble in most organic solvents.

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Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	Test method not applicable
Decomposition temperature	:	SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.
Self-Accelerating decomposition temperature (SADT)	:	230 °F / 110 °C
Viscosity	:	
Viscosity, dynamic	:	3.5 mPa.s (77 °F / 25 °C)
	:	5 mPa.s (68 °F / 20 °C)
Viscosity, kinematic	:	5.71 mm <sup>2</sup> /s (68 °F / 20 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	Not classified as oxidizing.
Active Oxygen Content	:	7.3 - 7.6 %
Organic peroxides	:	41 %

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under normal conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Confinement must be avoided. Heat, flames and sparks.
Incompatible materials	:	Contact with the following incompatible materials will result in hazardous decomposition: Acids and bases Iron Copper Reducing agents Heavy metals Rust

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Do not mix with peroxide accelerators, unless under controlled processing.  
Use only stainless steel 316, PP, polyethylene or glass-lined equipment.  
For queries regarding the suitability of other materials please contact the supplier.

Hazardous decomposition products : No decomposition if stored and applied as directed.

Hazardous decomposition products : Methyl acetate  
Methane  
Ethyl acetate  
Ethane  
Methyl ethyl ketone  
Carbon dioxide

Thermal decomposition : SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.

Self-Accelerating decomposition temperature (SADT) : 110 °C

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

#### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

#### **Components:**

##### **3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperxonane:**

Acute oral toxicity : LD50: > 2,000 mg/kg

Acute dermal toxicity : LD50: > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:**

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

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

### **Skin corrosion/irritation**

Causes skin irritation.

#### **Components:**

##### **3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:**

Result : Skin irritation

##### **Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:**

Assessment : Repeated exposure may cause skin dryness or cracking.

##### **Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:**

Assessment : Repeated exposure may cause skin dryness or cracking.

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

Not classified due to lack of data.

#### **Components:**

##### **3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:**

Result : Slightly irritating to eyes.

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Not classified due to lack of data.

#### **Components:**

##### **3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:**

Result : May cause sensitization by skin contact.

### **Germ cell mutagenicity**

Not classified due to lack of data.

#### **Components:**

##### **3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:**

Genotoxicity in vitro : Test Type: Ames test

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Result: negative

### **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 identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

Not classified due to lack of data.

#### **STOT-single exposure**

Not classified due to lack of data.

#### **STOT-repeated exposure**

Not classified due to lack of data.

### **Components:**

#### **3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:**

Routes of exposure : Ingestion

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

### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

### **Components:**

#### **3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:**

May be fatal if swallowed and enters airways.

#### **Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:**

May be fatal if swallowed and enters airways.

#### **Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:**

May be fatal if swallowed and enters airways.

### **Further information**

#### **Product:**

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- Remarks : May cause damage to organs through prolonged or repeated exposure.  
This product may cause adverse reproductive effects.
- Remarks : Solvents may degrease the skin.
- Remarks : No further data available.

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.4 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Remarks: No toxicity at the limit of solubility.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 2 mg/l  
Exposure time: 48 h  
Test Type: static test  
Remarks: No toxicity at the limit of solubility.
- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 1.4 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
Remarks: No toxicity at the limit of solubility.
- NOEC (Desmodesmus subspicatus (green algae)): > 1.4 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
Remarks: No toxicity at the limit of solubility.
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 2.7 mg/l  
End point: reproduction rate  
Exposure time: 21 d  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: No toxicity at the limit of solubility.
- Toxicity to microorganisms : NOEC (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: Domestic OECD Guideline 209

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### Persistence and degradability

#### Components:

##### **3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:**

Biodegradability : Result: Not readily biodegradable.

##### **Paraffin waxes and Hydrocarbon waxes:**

Biodegradability : Result: Inherently biodegradable.

### Bioaccumulative potential

#### Components:

##### **Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:**

Partition coefficient: n-octanol/water : Remarks: No data available

##### **Mobility in soil**

No data available

##### **Other adverse effects**

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : May cause long lasting harmful effects to aquatic life.  
None known.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of contents/container in accordance with local regulation.  
Notice to users: Disposal restriction apply.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.

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Do not burn, or use a cutting torch on, the empty drum.  
Due to the high risk of contamination recycling/recovery is not recommended.  
Follow all warnings even after the container is emptied.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : UN 3105  
Proper shipping name : ORGANIC PEROXIDE TYPE D, LIQUID  
(3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane, 41%)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
Environmentally hazardous : no

##### IATA-DGR

UN/ID No. : UN 3105  
Proper shipping name : Organic peroxide type D, liquid  
(3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane, 41%)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : Organic Peroxides, Keep Away From Heat  
Packing instruction (cargo aircraft) : 570  
Packing instruction (passenger aircraft) : 570

##### IMDG-Code

UN number : UN 3105  
Proper shipping name : ORGANIC PEROXIDE TYPE D, LIQUID  
(3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane, 41%)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
EmS Code : F-J, S-R  
Marine pollutant : no

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### Domestic regulation

##### 49 CFR

UN/ID/NA number : UN 3105  
Proper shipping name : Organic peroxide type D, liquid  
(3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane, 41%)  
Class : 5.2  
Packing group : Not assigned by regulation

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Labels : ORGANIC PEROXIDE  
ERG Code : 145  
Marine pollutant : no  
Reportable Quantity : This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only. 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 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS 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** : Flammable (gases, aerosols, liquids, or solids)  
Organic peroxides  
Respiratory or skin sensitization  
Aspiration hazard  
Skin corrosion or 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.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### US State Regulations

#### Massachusetts Right To Know

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	927-676-8
Paraffin waxes and Hydrocarbon waxes	8002-74-2

#### Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

#### 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.

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

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AICC	:	All components are listed on the inventory, regulatory obligations/restrictions apply
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

#### TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:

3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane	24748-23-0	Changes proposed per 85 FR 73439; See 40 CFR § 721.10432; Final Rule
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The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

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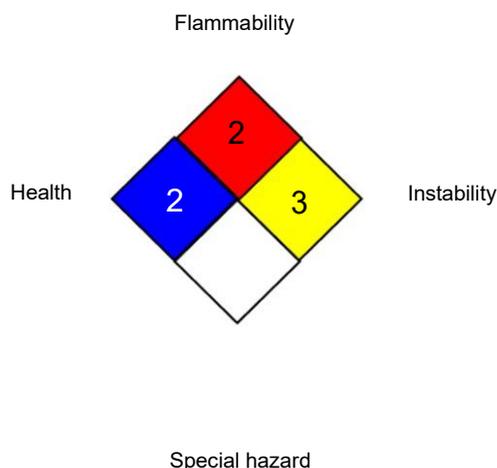
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Date of first issue:04/25/2017

3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane      24748-23-0

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA 704:**



**HMIS® IV:**

<b>HEALTH</b>	/	<b>2</b>
<b>FLAMMABILITY</b>		<b>2</b>
<b>PHYSICAL HAZARD</b>		<b>2</b>

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)
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- ACGIH / TWA : 8-hour, time-weighted average
- ACGIH / STEL : Short-term exposure limit
- NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- OSHA P0 / TWA : 8-hour time weighted average
- OSHA P0 / STEL : Short-term exposure limit
- 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,

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



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and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; 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 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; 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, Authorisation 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; 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

This data sheet contains changes from the previous version in section(s):  
Regulatory information

Revision Date : 04/15/2025

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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.

US/EN/500W