

## PERODOX 23

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 23

#### 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)

Organic peroxides : Type D  
Skin irritation : Category 2  
Skin sensitization : Category 1  
Aspiration hazard : Category 1  
Short-term (acute) aquatic hazard : Category 1  
Long-term (chronic) aquatic hazard : Category 2

#### GHS label elements

Hazard pictograms : 

Signal Word : Danger

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

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## PERODOX 23

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

---

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

:

**Prevention:**

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.  
P220 Keep/Store away from clothing/ combustible materials.  
P234 Keep only in original container.  
P235 Keep cool.  
P261 Avoid breathing mist or vapors.  
P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of  
the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON  
CENTER/ doctor.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P331 Do NOT induce vomiting.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/  
attention.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use water spray, alcohol-resistant  
foam, dry chemical or carbon dioxide to extinguish.  
P391 Collect spillage.

**Storage:**

P405 Store locked up.  
P410 Protect from sunlight.  
P411 Store at temperatures not exceeding 0°C/ 32°F.  
P420 Store away from other materials.

**Disposal:**

P501 Dispose of contents/ container to an approved waste dis-  
posal plant.

**Other hazards**

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Components**

**PERODOX 23**

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

Chemical name	CAS-No.	Concentration (% w/w)
tert-Butyl peroxyneodecanoate	26748-41-4	>= 74 - <= 76
Petroleum naphtha	64742-48-9	>= 24 - <= 26

**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.  
Give oxygen or artificial respiration if needed.  
Call a physician or poison control center immediately.  
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.  
Wash contaminated clothing before re-use.  
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.
- Notes to physician : Treat symptomatically.

**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

## PERODOX 23

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

---

- 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 : No hazardous combustion products are known
- 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.
- 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.

**PERODOX 23**

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

Never return spills in original containers for re-use.

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Use explosion protected equipment.  
Keep away from sources of ignition - No smoking.  
No sparking tools should be used.  
Keep away from reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal soaps).  
Do not cut or weld on or near this container even when empty.  
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.  
Observe label precautions.  
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.  
No decomposition if stored and applied as directed.
  
- Minimum storage temperature: : Avoid temperatures below:  
-25 °C (-13 °F)
  
- Maximum storage temperature: : -10 °C (14 °F)

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Petroleum naphtha	64742-48-9	TWA	500 ppm	OSHA Z-1

**PERODOX 23**

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

			2,000 mg/m3	
		TWA	400 ppm 1,600 mg/m3	OSHA P0

**Occupational exposure limits of decomposition products**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
tert-Butanol	75-65-0	TWA	100 ppm	ACGIH
		TWA	100 ppm 300 mg/m3	NIOSH REL
		ST	150 ppm 450 mg/m3	NIOSH REL
		TWA	100 ppm 300 mg/m3	OSHA Z-1
		TWA	100 ppm 300 mg/m3	OSHA P0
		STEL	150 ppm 450 mg/m3	OSHA P0
		TWA	100 ppm	ACGIH
tert-Butanol	75-65-0	TWA	100 ppm	ACGIH
		TWA	100 ppm 300 mg/m3	NIOSH REL
		ST	150 ppm 450 mg/m3	NIOSH REL
		TWA	100 ppm 300 mg/m3	OSHA Z-1
		TWA	100 ppm 300 mg/m3	OSHA P0
		STEL	150 ppm 450 mg/m3	OSHA P0
		TWA	100 ppm	ACGIH
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**

**PERODOX 23**

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

---

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

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	liquid
Color	:	colorless
Odor	:	very faint
Odor Threshold	:	No data available
pH	:	Not applicable
Freezing point	:	-13 °F / -25 °C
Boiling point	:	Not applicable
Flash point	:	Not applicable Above the SADT value
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	:	No data available

## PERODOX 23

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

---

Relative vapor density	:	No data available
Relative density	:	0.88 (32 °F / 0 °C)
Density	:	0.88 g/cm <sup>3</sup> (32 °F / 0 °C)
Solubility(ies)		
Water solubility	:	immiscible
Solubility in other solvents	:	miscible with most organic solvents Solvent: organic solvent
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)	:	68 °F / 20 °C
Viscosity		
Viscosity, dynamic	:	17 mPa.s (32 °F / 0 °C)
Viscosity, kinematic	:	19.5 mm <sup>2</sup> /s (32 °F / 0 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	Not applicable
Active Oxygen Content	:	4.88 - 4.98 %
Organic peroxides	:	74 - 76 %

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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.

## PERODOX 23

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

---

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 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	:	tert-Butanol
Hazardous decomposition products	:	tert-Butanol Carbon dioxide Neononane isomer(s)
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)	:	20 °C

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

#### Components:

#### **tert-Butyl peroxyneodecanoate:**

Acute oral toxicity	:	LD50 Oral (Rat, male and female): 10,776 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 37.5 mg/l Exposure time: 4 h

## PERODOX 23

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

---

Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 6,000 mg/kg

### **Petroleum naphtha:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Remarks: Information taken from reference works and the literature.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Remarks: Information taken from reference works and the literature.

### **Skin corrosion/irritation**

Causes skin irritation.

### **Components:**

#### **tert-Butyl peroxyneodecanoate:**

Species : Rabbit  
Exposure time : 4 h  
Assessment : Category 2  
Method : OECD Test Guideline 404  
Result : Irritating to skin.

### **Petroleum naphtha:**

Method : OECD Test Guideline 404  
Result : Repeated exposure may cause skin dryness or cracking.  
Remarks : Information taken from reference works and the literature.

Result : Mild skin irritation  
Remarks : Information taken from reference works and the literature.

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

Not classified due to lack of data.

### **Components:**

#### **tert-Butyl peroxyneodecanoate:**

Species : Rabbit  
Result : No eye irritation  
Assessment : No eye irritation

## PERODOX 23

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

---

### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

Not classified due to lack of data.

#### Components:

##### tert-Butyl peroxyneodecanoate:

Assessment : May cause sensitization by skin contact.

Assessment : Severe skin irritation  
May cause sensitization by skin contact.

##### Petroleum naphtha:

Assessment : Does not cause skin sensitization.  
Method : OECD Test Guideline 406  
Remarks : Information taken from reference works and the literature.

### Germ cell mutagenicity

Not classified due to lack of data.

#### Product:

Germ cell mutagenicity - Assessment : Based on available data, the classification criteria are not met.

#### Components:

##### tert-Butyl peroxyneodecanoate:

Genotoxicity in vitro : Test Type: In vitro gene mutation test (CHO cells):  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: Positive results in some in vitro tests.

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Strain: NMRI and DBA  
Cell type: Bone marrow  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 474

PERODOX 23

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

---

Result: negative

Germ cell mutagenicity - Assessment : Based on available data, the classification criteria are not met.

**Petroleum naphtha:**

Germ cell mutagenicity - Assessment : Not mutagenic.

**Carcinogenicity**

Not classified due to lack of data.

**Product:**

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

**Components:**

**tert-Butyl peroxyneodecanoate:**

Remarks : No human information is available.

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

**Petroleum naphtha:**

Result : no effects

Carcinogenicity - Assessment : Not carcinogenic.

**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.

**Product:**

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met. not teratogenic if the exposure limit value is applied

**Components:**

**tert-Butyl peroxyneodecanoate:**

Effects on fertility : Test Type: Fertility/early embryonic development

## PERODOX 23

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

Species: Rat, male and female  
Application Route: Oral  
Dose: 60, 200, 600 mg/kg bw/day  
Duration of Single Treatment: 24 h  
Frequency of Treatment: 1 daily  
General Toxicity Parent: NOAEL: 200 mg/kg bw/day  
General Toxicity F1: NOAEL: 60 mg/kg bw/day  
Method: OECD Test Guideline 422  
Result: Animal testing did not show any effects on fertility.  
GLP: yes

Effects on fetal development : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Oral  
Dose: 60, 200, 600 milligram per kilogram  
Duration of Single Treatment: 24 h  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: NOAEL: 200 mg/kg bw/day  
Teratogenicity: NOAEL Mating/Fertility: 60 mg/kg bw/day  
Method: OECD Test Guideline 422  
Result: Animal testing did not show any effects on fertility.  
GLP: yes

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.  
not teratogenic if the exposure limit value is applied

### **Petroleum naphtha:**

Reproductive toxicity - Assessment : No toxicity to reproduction  
No effects on or via lactation

### **STOT-single exposure**

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

### **Components:**

#### **tert-Butyl peroxyneodecanoate:**

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

#### **Petroleum naphtha:**

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

Remarks : Information taken from reference works and the literature.

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

Not classified due to lack of data.

## PERODOX 23

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

---

### **Components:**

#### **tert-Butyl peroxyneodecanoate:**

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

#### **Petroleum naphtha:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.  
Remarks : The value is estimated from tests on similar products.  
Information taken from reference works and the literature.

### **Repeated dose toxicity**

#### **Components:**

#### **tert-Butyl peroxyneodecanoate:**

Species : Rat, male and female  
: 10 mg/kg bw/day  
Application Route : Oral  
Method : OECD Test Guideline 408  
GLP : yes  
Remarks : Information given is based on data obtained from similar substances.

Repeated dose toxicity - Assessment : Severe skin irritation

#### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

#### **Components:**

#### **tert-Butyl peroxyneodecanoate:**

No aspiration toxicity classification

#### **Petroleum naphtha:**

May be fatal if swallowed and enters airways.

### **Further information**

#### **Product:**

Remarks : Solvents may degrease the skin.

Remarks : No further data available.

## PERODOX 23

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

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **tert-Butyl peroxyneodecanoate:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.33 mg/l  
Exposure time: 96 h  
Test Type: Fresh water  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.79 mg/l  
Exposure time: 48 h  
Test Type: Fresh water  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.48 mg/l  
End point: EL50  
Exposure time: 72 h  
Test Type: Growth inhibition  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.049 mg/l  
End point: reproduction rate  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes
- M-Factor (Chronic aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (activated sludge): 2,054 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: yes

## PERODOX 23

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

---

### Ecotoxicology Assessment

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

### Petroleum naphtha:

Toxicity to fish : LC0 (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l  
Exposure time: 96 h  
Remarks: Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates : EC0 (Daphnia magna (Water flea)): 1,000 mg/l  
Exposure time: 48 h  
Remarks: Information taken from reference works and the literature.

Toxicity to algae/aquatic plants : EC0 (Pseudokirchneriella subcapitata (green algae)): 1,000 mg/l  
Exposure time: 72 h  
Remarks: Information taken from reference works and the literature.

### Ecotoxicology Assessment

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

### Persistence and degradability

#### Components:

#### **tert-Butyl peroxyneodecanoate:**

Biodegradability : Ready biodegradability  
Concentration: 2 mg/l  
Result: Readily biodegradable.  
Biodegradation: 63 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes

Physico-chemical removability : Remarks: Readily eliminated from water

### Petroleum naphtha:

Biodegradability : Ready biodegradability  
Biodegradation: 80 %  
Exposure time: 28 d  
Remarks: Information taken from reference works and the literature.

## PERODOX 23

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

---

### Bioaccumulative potential

#### Components:

##### **tert-Butyl peroxyneodecanoate:**

Bioaccumulation : Remarks: Substance is not persistent, bioaccumulative, and toxic (PBT).  
Substance is not very persistent and very bioaccumulative (vPvB).

Partition coefficient: n-octanol/water : log Pow: 5.4 (68 °F / 20 °C)

##### **Petroleum naphtha:**

Bioaccumulation : Remarks: No data available

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

### Mobility in soil

#### Components:

##### **Petroleum naphtha:**

Mobility : Remarks: Disperses rapidly in air.

### 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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### Components:

##### **tert-Butyl peroxyneodecanoate:**

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).  
Substance is not very persistent and very bioaccumulative (vPvB).

##### **Petroleum naphtha:**

Results of PBT and vPvB : Not classified as PBT or vPvB



## PERODOX 23

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

### 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 3115
Proper shipping name	: Organic peroxide type D, liquid, temperature controlled (tert-Butyl peroxyneodecanoate, 75%)
Class	: 5.2
Packing group	: Not assigned by regulation
Labels	: ORGANIC PEROXIDE
ERG Code	: 148
Marine pollutant	: yes
Reportable Quantity	: This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

### Special precautions for user

Remarks	: The control temperature is the maximum temperature at which the formulation can be transported safely during a prolonged period of time.
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### Further information for transport

Control temperature	: 0 °C (32 °F)
Emergency temperature	: 10 °C (50 °F)

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.

<b>SARA 311/312 Hazards</b>	: Reactivity Hazard Acute Health Hazard Organic peroxides Respiratory or skin sensitization Aspiration hazard Skin corrosion or irritation
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## PERODOX 23

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

**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 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.

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

#### Pennsylvania Right To Know

tert-Butyl peroxyneodecanoate	26748-41-4
Isododecane	64742-48-9

#### Maine Chemicals of High Concern

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

#### New Jersey Right To Know

tert-Butyl peroxyneodecanoate	26748-41-4
Isododecane	64742-48-9

#### 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

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

**PERODOX 23**

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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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 : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

TECI : On the inventory, or in compliance with the inventory

**TSCA list**

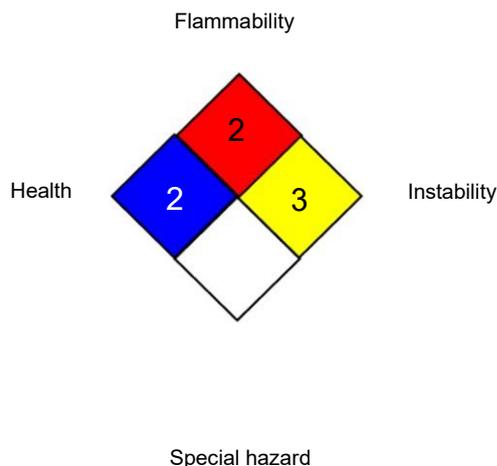
No substances are subject to a Significant New Use Rule.

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

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA 704:**



**HMIS® IV:**

<b>HEALTH</b>	/	<b>2</b>
<b>FLAMMABILITY</b>		<b>3</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)

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PERODOX 23

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

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, 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; 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

**SAFETY DATA SHEET**  
according to the OSHA Hazard Communication Standard



**PERODOX 23**

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

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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