SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

PERODOX 25

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

SECTION 1. IDENTIFICATION

Product name : PERODOX 25

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, Jinggangshan Road,
Huangdao District, Qingdao, Shandong Province.
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

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR1910.1200)

Organic peroxides : Type C

Skin irritation : Category 2

Skin sensitization : Category 1

Specific target organ toxicity- single exposure : Category 3 (Respiratory system)

Aspiration hazard Category 1

Short-term (acute) aquatic hazard Category 2

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.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
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.

P271 Use only outdoors or in a well-ventilated area.
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.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell
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:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
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 disposal plant.

Other hazards
None known

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS No./ Unique ID	Concentration (% w/w)
1,3-Bis(tertbutylperoxyisopropyl)benzene	927-07-1	>= 74 - <= 76

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. If symptoms persist, call a physician.
Most important symptoms and effects, both acute	:	The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

and delayed

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

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.

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
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, alkalies 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.

Maximum storage temperature : -5 °C (23 °F)

Minimum storage temperature Avoid temperatures below:
-20 °C (-4 °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 2,000 mg/m3	OSHA Z-1
		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
Isobutane	75-28-5	TWA	800 ppm 1,900 mg/m3	NIOSH REL
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
Isobutylene	115-11-7	TWA	250 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

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless

Odor : Faint.

Odor Threshold : No data available

pH : Not applicable

Melting point : <= 5 °F / <= -15 °C

Boiling point/boiling range : Decomposes below the boiling point

Flash point : 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 : 4 hPa (100 °F / 38 °C)

Relative vapor density : Not applicable

Relative density : 0.875 (32 °F / 0 °C)

Bulk density : Not applicable

Solubility(ies)

Water solubility : immiscible

Solubility in other solvents : Description: miscible with most organic solvents

Partition coefficient: noctanol/water : log Pow: 3.17

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 : 2.1 mPa.s (68 °F / 20 °C)

Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	Not classified as oxidizing.
Active Oxygen Content		6.8 - 7.0 %
Organic peroxides	:	74 - 76 %

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 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	:	Isobutane tert-Butanol Isobutylene 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)	:	20 °C

SECTION 11. TOXICOLOGICAL INFORMATION

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

Products:
tert-Butyl peroxypivalate:

Acute oral toxicity	:	LD50 (Rat, male and female): 4,169 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): 7.79 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rabbit, male and female): 2,500 mg/kg Method: OECD Test Guideline 402

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 peroxypivalate:
Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 404
Result : Skin irritation

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 peroxypivalate:
Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

Respiratory or skin sensitization
Skin sensitization
May cause an allergic skin reaction.
Respiratory sensitization
Not classified due to lack of data.

Components:
tert-Butyl peroxypivalate:
Species : Guinea pig
Assessment : The product is a skin sensitizer, sub-category 1B.
Method : OECD Test Guideline 406
GLP : yes

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.

Components:
tert-Butyl peroxypivalate:
Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Ames test

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: positive
GLP: yes

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

Petroleum naphtha:
Germ cell mutagenicity - Assessment : Not mutagenic

Carcinogenicity
Not classified due to lack of data.

Components:
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.

Components:
tert-Butyl peroxypivalate:
Effects on fertility : Species: Rat, male and female
Application Route: Oral
Dose: 0 50, 150, 310 milligram per kilogram
General Toxicity Parent: NOAEL: 150 mg/kg bw/day
General Toxicity F1: NOAEL F1: 150 mg/kg bw/day
Fertility: NOAEL Parent: 310 mg/kg bw/day
Method: OECD Test Guideline 422
GLP: yes

Effects on fetal development : Species: Rat, male and female
Strain: wistar
Application Route: Oral
Dose: 0,50,150,450 milligram per kilogram
General Toxicity Maternal: NOAEL: 50 mg/kg bw/day
Developmental Toxicity: NOAEL: 150 mg/kg bw/day
Method: OECD Test Guideline 414
GLP: yes

Petroleum naphtha:
Reproductive toxicity - Assessment : No toxicity to reproduction

STOT-single exposure
May cause respiratory irritation.

Components:
tert-Butyl peroxypivalate:

Routes of exposure	: Inhalation
Target Organs	: Respiratory system
Assessment	: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

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.

Components:
tert-Butyl peroxypivalate:

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.

Aspiration toxicity
May be fatal if swallowed and enters airways.

Components:
tert-Butyl peroxypivalate:
The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazar

Petroleum naphtha:
May be fatal if swallowed and enters airways.

Further information
Product:

Remarks	: Solvents may degrease the skin.
Remarks	: Remarks

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Components:

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 18.85 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 6.99 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (green algae)): 1.417mg/l

/aquatic plants

Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.096mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to microorganisms : EC10 (Pseudomonas putida): 10,000 mg/l
Exposure time: 0.5 h
Test Type: Respiration inhibition

Ecotoxicology Assessment
Acute aquatic toxicity : Toxic to aquatic life.
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)): 1,000mg/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 peroxypivalate:
Biodegradability : Ready biodegradability
Inoculum: Activated sludge, domestic, non-adapted
Concentration: 1,000 mg/l
Result: Not readily biodegradable.
Biodegradation: 15 %
Exposure time: 71 d
Method: OECD Test Guideline 301D
GLP: yes

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

Bioaccumulative potential
Components:
tert-Butyl peroxypivalate:
Bioaccumulation : Bioconcentration factor (BCF): 32.57
Method: Calculation method

Partition coefficient: noctanol/water	:	log Pow: 3.17 Method: OECD Test Guideline 117

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:

Petroleum naphtha:

Results of PBT and vPvB assessment		Not classified as PBT or vPvB Remarks: Information taken from reference works and the literature

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local regulation.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. 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 3113
Proper shipping name	:	ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (tert-Butyl peroxypivalate, 75%)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Environmentally hazardous		Yes

IATA-DGR

Not permitted for transport

IMDG-Code

UN number	:	UN 3113
Proper shipping name	:	ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (tert-Butyl peroxypivalate, 75%, tert-Butyl peroxypivalate)
Class	:	5.2
Packing group	:	Not assigned by regulation

Labels	: 5.2
EmS Code	: F-F, S-R
Marine pollutant	: Yes

Transport in bulk according to IMO instruments
Not applicable for product as supplied.

Domestic regulation
49 CFR

UN/ID/NA number	: UN 3113
Proper shipping name	: ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (tert-Butyl peroxypivalate, 75%, tert-Butyl peroxypivalate)
Class	: 5.2
Packing group	: Not assigned by regulation
Labels	: ORGANIC PEROXIDE
ERG Code	: 148
Marine pollutant	: yes(tert-Butyl peroxypivalate)
Reportable Quantity	: This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

Special precautions for user
The control temperature is the maximum temperature at which the formulation can be transported safely during a prolonged period of time.

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.

SARA 311/312 Hazards	: Organic peroxides Respiratory or skin sensitization Aspiration hazard Skin corrosion or irritation Specific target organ toxicity (single or repeated exposure)
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).F).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI 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

Massachusetts Right To Know

tert-Butyl peroxypivalate : 927-07-1

Pennsylvania Right To Know

Product does not contain any listed chemicals

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

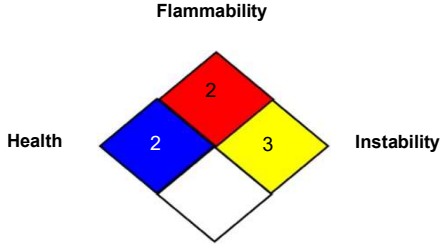
No substances are subject to a Significant New Use Rule.

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

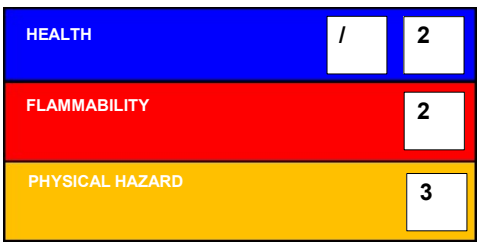
SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:



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,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;

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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.

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