

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PERODOX LUNA

Version
4.15

Reversion Date
04/15/2025

Market/LAN./Code
U.S./EN/500W

Date of last issue:01/07/2025
Date of first issue:04/25/2017

SECTION 1. IDENTIFICATION

Product name : PERODOX LUNA

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 D

Other hazards

Dust can form an explosive mixture in air.

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H242 Heating may cause a fire.

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

P280 Wear protective gloves/ protective clothing/ eye protection/face protection/ hearing protection.

Response:

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.

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 : Substance

Substance name : PERODOX LUNA

CAS-No. : 105-74-8

Components

Chemical name	CAS No./ Unique ID	Classification	Concentration (%w/w)	Trade secret
Dilauroyl peroxide	105-74-8*	Org. Perox. D; H242	>= 99 - <= 100	-

* Indicates that the identifier is a CAS No.

SECTION 4. FIRST AID MEASURES

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General advice	: Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.
If inhaled	: Remove to fresh air Rinse nose and mouth with water
In case of skin contact	: Take off contaminated clothing and shoes immediately
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. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
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.
Notes to physician	: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Specific hazards during fire fighting	: CAUTION: reignition may occur. Supports combustion. Water spray may be ineffective unless used by experienced firefighters. Do not allow run-off from fire fighting to enter drains or water courses. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Avoid dust formation Ensure adequate ventilation. Remove all sources of ignition. 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
Methods and materials for containment and cleaning up	: Keep wetted with water Confinement must be avoided. Pick up and arrange disposal without creating dust. Collect in plastic container for disposal as hazardous waste. 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. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. No sparking tools should be used.
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	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 creating dust.
	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
	Do not smoke.
	Open drum carefully as content may be under pressure.
Conditions for safe storage	: No smoking.
	Keep in a well-ventilated place.
	Keep in a dry place.
	Electrical installations / working materials must comply with the technological safety standards.
	Store at room temperature in the original container.
	Keep only in original container.
	Store away from other materials.
Further information on storage stability	: Maximum storage temperature is for quality only.
Maximum storage temperature	: 30 °C (86 °F)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Occupational exposure limits of decomposition products

Components	CAS No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm	NIOSH REL
			9,000 mg/m3	
		ST	30,000 ppm	NIOSH REL
			54,000 mg/m3	
		TWA	5,000 ppm	OSHA Z-1
			9,000 mg/m3	
		TWA	10,000 ppm	OSHA P0
			18,000 mg/m3	
		STEL	30,000 ppm	OSHA P0
			54,000 mg/m3	

Engineering measures	: Explosion proof ventilation recommended.
	Provide appropriate exhaust ventilation at places where dust is formed.
Personal protective equipment	
Respiratory protection	: Half mask with a particle filter P2 (EN 143)
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.
	Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: flakes
Color	: white
Odor	: Faint.
Odor Threshold	: No data available
pH	: neutral
Melting point	: 127 - 131 °F / 53 - 55 °C

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Boiling point/boiling range	: Decomposes below the boiling point
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Decomposition products may be flammable.
Upper explosion limit	: No data available
/ Upper flammability limit	
Lower explosion limit	: No data available
/ Lower flammability limit	
Vapor pressure	: Not applicable
Relative vapor density	: Not applicable
Relative density	: 1.03 (68 °F / 20 °C)
Bulk density	: 460 kg/m3 (68 °F / 20 °C)
Solubility(ies)	
Water solubility	: < 0.0001 g/l (68 °F / 20 °C)
Solubility in other solvents	: No data available
Partition coefficient:	: log Pow: > 6.5
noctanol/water	
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)	: 122 °F / 50 °C
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Not classified as oxidizing.
Active Oxygen Content	3.95 %
Organic peroxides	: > 99 %

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. No decomposition if stored and applied as directed.
Hazardous decomposition products	: Docosane Undecane Undecyl dodecanoate 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

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Self-Accelerating decomposition temperature (SADT) : 50 °C
at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Components:

Dilauroyl peroxide:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity : Remarks: No data available
Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

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

Components:

Dilauroyl peroxide:

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation

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

Components:

Species : Rabbit
Result : No skin irritation

Respiratory or skin sensitization

Skin sensitization

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

Respiratory sensitization

Not classified due to lack of data.

Components:

Dilauroyl peroxide:

Assessment : Does not cause skin sensitization.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Dilauroyl peroxide:

Genotoxicity in vitro : Test Type: Ames test
Result: negative
Genotoxicity in vivo : Result: Not mutagenic.

Carcinogenicity

Not classified due to lack of data.

Components:

Dilauroyl peroxide:

Remarks : study scientifically unjustified

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

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

Repeated dose toxicity
Components:
Dilauroyl peroxide:
Species : Rat
NOAEL : 1,000 mg/kg
Application Route : Oral

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

Components:
Dilauroyl peroxide:
No aspiration toxicity classification

Further information
Product:
Remarks : No further data available.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Product:
Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 0.3 mg/l
Exposure time: 96 h
Remarks: No toxicity at the limit of solubility.

Components:
Dilauroyl peroxide:
Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 0.3 mg/l
Exposure time: 96 h
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 9.7 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility.

Toxicity to algae /aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1mg/l
Exposure time: 72 h
Test Type: Growth inhibition

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Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility.
NOEC (Pseudokirchneriella subcapitata (green algae)): >0.089 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 microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 0.5 h
Test Type: Respiration inhibition
Method: Domestic OECD Guideline 209

Persistence and degradability

Product:

Biodegradability : Result: Readily biodegradable.

Components:

Dilauroyl peroxide:

Biodegradability : Result: Readily biodegradable.
Method: Closed Bottle test

Bioaccumulative potential

Components:

Dilauroyl peroxide:

Bioaccumulation : Bioconcentration factor (BCF): 77.38

Partition coefficient: : log Pow: > 6.5
noctanol/water

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 : None known.
ecological information

Components:

Dilauroyl peroxide:

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

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.

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.

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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	: UN 3106
Proper shipping name	: ORGANIC PEROXIDE TYPE D, SOLID (Dilauroyl peroxide, 99%)
Class	: 5.2
Packing group	: Not assigned by regulation
Labels	: 5.2
Environmentally hazardous	: no

IATA-DGR

UN/ID No.	: UN 3106
Proper shipping name	: ORGANIC PEROXIDE TYPE D, SOLID (Dilauroyl peroxide, 99%)
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 3106
Proper shipping name	: ORGANIC PEROXIDE TYPE D, SOLID (Dilauroyl peroxide, 99%)
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 3106
Proper shipping name	: ORGANIC PEROXIDE TYPE D, SOLID (Dilauroyl peroxide, 99%)
Class	: 5.2
Packing group	: Not assigned by regulation
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 : Organic peroxides

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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 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

Massachusetts Right To Know

Dilauroyl peroxide : 105-74-8

Pennsylvania Right To Know

Dilauroyl peroxide : 105-74-8

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:

Flammability

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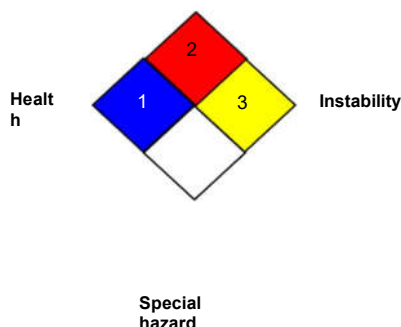
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HEALTH	/	1
FLAMMABILITY		2
PHYSICAL HAZARD		3

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

AIIIC - 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;

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