

## • SAFETY DATA SHEET

Version 6.16  
Revision Date 12/25/2025  
Print Date 12/26/2025

### SECTION 1. IDENTIFICATION

#### 1.1 Product identifiers

Product name : Luperox® 331M80, 1,1-Bis(*tert*-butylperoxy)cyclohexane solution  
Product Number : 531758  
Brand : Aldrich  
CAS-No. : 3006-86-8

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

#### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES  
Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

#### 1.4 Emergency telephone number

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-  
527-3887 CHEMTREC (International) 24  
Hours/day; 7 Days/week

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### SECTION 2. HAZARDS IDENTIFICATION

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

##### Hazards for the product as supplied

Flammable liquids : Category 4  
Organic peroxides : Type C  
Skin irritation : Category 2  
Eye irritation : Category 2A

Skin sensitisation	: Category 1
Germ cell mutagenicity	: Category 1B
Carcinogenicity	: Category 1B
Specific target organ toxicity - single exposure	: Category 3 (Respiratory system)
Aspiration hazard	: Category 1

### **Other hazards**

None known.

### **GHS label elements**



Signal word	: Danger
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Hazard statements	: <p>H227 Combustible liquid.          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.          H319 Causes serious eye irritation.          H335 May cause respiratory irritation.          H340 May cause genetic defects.          H350 May cause cancer.</p>
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Precautionary statements	: <p><b>Prevention:</b>          P201 Obtain special instructions before use.          P202 Do not handle until all safety precautions have been read and understood.          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.          P261 Avoid breathing mist or vapours.          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.          P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p>
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### **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.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P410 Protect from sunlight.  
P420 Store away from other materials.

**Disposal:**

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

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
CAS-No. : 3006-86-8

**Components**

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
Cyclohexylidenebis[tert-butyl] peroxide	3006-86-8*	>= 70 - < 90	-
Low boiling point modified naphtha	64741-65-7*	>= 5 - < 10	-
Naphtha (petroleum), hydrotreated heavy	64742-48-9*	>= 5 - < 10	-
tert-Butyl hydroperoxide	75-91-2*	>= 0.1 - < 1	-

\* Indicates that the identifier is a CAS No.  
Actual concentration is withheld as a trade secret

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## SECTION 4. FIRST AID MEASURES

General advice : Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Call in physician.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact : After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed : After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

Most important symptoms and effects, both acute and delayed : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Protection of first-aiders : For personal protection see section 8.

Notes to physician : No data available

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## SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
Carbon dioxide (CO2)  
Dry powder

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards during fire fighting : Mixture with combustible ingredients.  
  
Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

Hazardous combustion products	: Carbon oxides
Specific extinguishing methods	: No data available
Further information	: Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Special protective equipment for fire-fighters	: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: For personal protection see section 8.
Environmental precautions	: Do not let product enter drains.
Methods and materials for containment and cleaning up	: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

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## SECTION 7. HANDLING AND STORAGE

For precautions see section 2.2.

Advice on protection against fire and explosion	: Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
Advice on safe handling	: Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.
Further information on storage conditions	: Keep locked up or in an area accessible only to qualified or authorised persons.
Storage class	: 4.1A, Other explosive hazardous materials
Recommended storage temperature	: 36 - 46 °F / 2 - 8 °C

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Low boiling point modified naphtha	64741-65-7	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
Naphtha (petroleum), hydrotreated heavy	64742-48-9	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
tert-Butyl hydroperoxide	75-91-2	TWA	0.1 ppm	ACGIH

**Engineering measures** : No data available

### Personal protective equipment

Respiratory protection : required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: : Filter type ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## Hand protection

Remarks	: required
Eye protection	: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
Skin and body protection	: protective clothing
Hygiene measures	: Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: No data available
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Melting point	: No data available
Boiling point/boiling range	: No data available
Flash point	: 154.9 °F / 68.3 °C Method: closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Flammability (liquids)	: No data available
Burning rate	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: No data available

Relative vapour density	: No data available
Relative density	: No data available
Density	: 0.891 g/cm <sup>3</sup> (77 °F / 25 °C)
Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Self-Accelerating decomposition temperature (SADT)	: 149 °F / 65 °C
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Explosive properties	: Not classified as explosive.
Oxidizing properties	: none
Molecular weight	: 260.37 g/mol
Particle characteristics	
Particle size	: No data available

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Forms explosive mixtures with air on intense heating.  A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Chemical stability	: The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	: No data available
Conditions to avoid	: Strong heating.

Incompatible materials : Strong bases  
Oxidizing agents  
Alkali metals  
Powdered metals  
Strong oxidizing agents  
Copper  
Strong acids  
Organic materials  
Aluminum  
Plastics

Hazardous decomposition : In the event of fire: see section 5  
products

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## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### **Mixture**

##### **Acute toxicity**

Acute toxicity estimate Oral - > 5,000 mg/kg  
(Calculation method)

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Inhalation: No data available

Acute toxicity estimate Inhalation - 4 h - > 20 mg/l - vapour(Calculation method)

Symptoms: Possible symptoms:, mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Dermal: No data available

Acute toxicity estimate Dermal - > 5,000 mg/kg  
(Calculation method)

##### **Skin corrosion/irritation**

Remarks: Mixture causes skin irritation.

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

Remarks: Mixture causes serious eye irritation.

##### **Respiratory or skin sensitization**

Mixture may cause an allergic skin reaction.

##### **Germ cell mutagenicity**

No data available

##### **Carcinogenicity**

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Low boiling point modified naphtha)

3 - Group 3: Not classifiable as to its carcinogenicity to humans (Low boiling point modified naphtha)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

No data available

#### **Specific target organ toxicity - single exposure**

No data available

#### **Specific target organ toxicity - repeated exposure**

No data available

#### **Aspiration hazard**

Aspiration hazard, Aspiration may cause pulmonary oedema and pneumonitis.

### **11.2 Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **Components**

#### **Cyclohexylidenebis[tert-butyl] peroxide**

##### **Acute toxicity**

Oral: No data available

Inhalation: No data available

Dermal: No data available

No data available

##### **Skin corrosion/irritation**

Remarks: No data available

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

Remarks: No data available

##### **Respiratory or skin sensitization**

No data available

##### **Germ cell mutagenicity**

No data available

##### **Carcinogenicity**

No data available

##### **Reproductive toxicity**

No data available

No data available

##### **Specific target organ toxicity - single exposure**

Inhalation - May cause respiratory irritation.

##### **Specific target organ toxicity - repeated exposure**

No data available

##### **Aspiration hazard**

No data available

## Low boiling point modified naphtha

### Acute toxicity

LD50 Oral - Rat - > 7,500 mg/kg

Remarks: (IUCLID)

LD50 Oral - Rat - > 2,000 mg/kg

Remarks: (External MSDS)

LC50 Inhalation - Rat - 4 h - > 5 mg/l - dust/mist

Remarks: (IUCLID)

LD50 Dermal - Rabbit - > 2,000 mg/kg

Remarks: (IUCLID)

### Skin corrosion/irritation

Skin - Rabbit

Result: Irritating to skin.

Remarks: (in analogy to similar products)

Remarks: (ECHA)

### Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation

Remarks: (IUCLID)

### Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

May cause genetic defects.

### Carcinogenicity

Presumed to have carcinogenic potential for humans

### Reproductive toxicity

No data available

### Specific target organ toxicity - single exposure

Inhalation - May cause drowsiness or dizziness. - Central nervous system

### Specific target organ toxicity - repeated exposure

No data available

### Aspiration hazard

Aspiration may cause pulmonary oedema and pneumonitis.

## Naphtha (petroleum), hydrotreated heavy

### Acute toxicity

LD50 Oral - Rat - male and female - > 5,000 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 7,630 mg/l - vapour

(OECD Test Guideline 403)

LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg

(OECD Test Guideline 402)

No data available

**Skin corrosion/irritation**

Remarks: No data available

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

**Respiratory or skin sensitization**

Buehler Test - Guinea pig

Did not cause sensitisation on laboratory animals.

(OECD Test Guideline 406)

**Germ cell mutagenicity**

Test Type: reverse mutation assay

Test system: *S. typhimurium*

Result: negative

Species: Rat - male and female

Result: negative

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**tert-Butyl hydroperoxide****Acute toxicity**

LD50 Oral - Rat - male and female - 560 mg/kg

Remarks: Aqueous solution

(ECHA)

LC50 Inhalation - Rat - male and female - 4 h - 0.84 mg/l - vapour

(OECD Test Guideline 403)

LD50 Dermal - Rabbit - male and female - 440 mg/kg

(OECD Test Guideline 402)

Remarks: Aqueous solution

No data available

**Skin corrosion/irritation**

Skin - Rabbit

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days. - 24 h

Remarks: Aqueous solution

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Corrosive - 21 d

Remarks: Aqueous solution

**Respiratory or skin sensitization**

Maximisation Test - Guinea pig

Result: positive

(OECD Test Guideline 406)

Remarks: Aqueous solution

**Germ cell mutagenicity**

Suspected of causing genetic defects.

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Chinese hamster cells

Result: positive

Remarks: (in analogy to similar products)

Test Type: In vitro mammalian cell gene mutation test

Test system: Mouse lymphoma test

Result: positive

Remarks: (in analogy to similar products)

Test Type: Ames test

Test system: S. typhimurium

Result: positive

Remarks: (in analogy to similar products)

Method: Regulation (EC) No. 440/2008, Annex, B.12

Species: Mouse - male and female

Result: negative

Remarks: (in analogy to similar products)

Method: Regulation (EC) No. 440/2008, Annex, B.12

Species: Mouse - male

Result: positive

Remarks: (in analogy to similar products)

Species: Rat - male

Result: negative

Remarks: (in analogy to similar products)

(ECHA)

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure****Aspiration hazard**

No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Cyclohexylidenebis[tert-butyl] peroxide:**

Toxicity to fish : Remarks: No data available

##### **Low boiling point modified naphtha:**

Toxicity to algae/aquatic plants : IC50 (Pseudokirchneriella subcapitata (green algae)): 13 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### **Ecotoxicology Assessment**

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

##### **Naphtha (petroleum), hydrotreated heavy:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,200 mg/l  
Exposure time: 96 h

##### **tert-Butyl hydroperoxide:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 29.61 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: Aqueous solution

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 14.1 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Aqueous solution

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata): 1.5 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Aqueous solution

Toxicity to microorganisms : EC50 (activated sludge): 17 mg/l  
Exposure time: 30 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: Aqueous solution

### **Persistence and degradability**

#### **Components:**

##### **Cyclohexylidenebis[tert-butyl] peroxide:**

Biodegradability : Remarks: No data available

##### **Low boiling point modified naphtha:**

Biodegradability : Biotic/Aerobic  
Result: Partially biodegradable.  
Biodegradation: 8 - 22 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
Remarks: (IUCLID)

##### **Naphtha (petroleum), hydrotreated heavy:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 77.05 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

##### **tert-Butyl hydroperoxide:**

Biodegradability : aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 27 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

### **Bioaccumulative potential**

#### **Components:**

##### **Cyclohexylidenebis[tert-butyl] peroxide:**

Bioaccumulation : Remarks: No data available

##### **Naphtha (petroleum), hydrotreated heavy:**

Bioaccumulation : Remarks: No data available

**tert-Butyl hydroperoxide:**

Partition coefficient: n-octanol/water : log Pow: ca. 0.846 (86 °F / 30 °C)  
pH: 6.5  
Method: Regulation (EC) No. 440/2008, Annex, A.8  
GLP: yes

**Mobility in soil**

**Components:**

**Cyclohexylidenebis[tert-butyl] peroxide:**

Stability in soil : Remarks: No data available

**Naphtha (petroleum), hydrotreated heavy:**

Stability in soil : Remarks: No data available

**Other adverse effects**

**Components:**

**Cyclohexylidenebis[tert-butyl] peroxide:**

Additional ecological information : No data available

**Naphtha (petroleum), hydrotreated heavy:**

Additional ecological information : No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Waste from residues : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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## SECTION 14. TRANSPORT INFORMATION

**International Regulations**

**IATA-DGR**

UN/ID No. : UN 3103  
Proper shipping name : Organic peroxide type C, liquid (1,1-Di-(tert-butylperoxy) cyclohexane)  
(1,1-Di-(tert-butylperoxy)cyclohexane)  
Class : 5.2  
Aldrich - 531758

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The life science business of Merck KGaA, Darmstadt, Germany  
operates as MilliporeSigma in the US and Canada

**Millipore  
Sigma**

Packing group	:	Not assigned by regulation
Labels	:	Division 5.2 - Organic peroxides, Handling Label - Keep Away From Heat
Packing instruction (cargo aircraft)	:	570
Packing instruction (passenger aircraft)	:	570

#### **IMDG-Code**

UN number	:	UN 3103
Proper shipping name	:	ORGANIC PEROXIDE TYPE C, LIQUID (1,1-DI-(tert-BUTYLPEROXY)CYCLOHEXANE)
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.

#### **National Regulations**

##### **49 CFR Road**

UN/ID/NA number	:	UN 3103
Proper shipping name	:	Organic peroxide type C, liquid (1,1-Di-(tert-butyperoxy)cyclohexane, >52-80%) (1,1-Di-(tert-butyperoxy)cyclohexane)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	Division 5.2 - Organic peroxides
ERG Code	:	146
Marine pollutant	:	no

Poison Inhalation Hazard : No

#### **Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Cyclohexanone	108-94-1	100	100 (F003)

#### **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** : Fire Hazard  
Reactivity Hazard  
Chronic Health Hazard

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## **US State Regulations**

### **Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

### **Pennsylvania Right To Know**

Low boiling point modified naphtha	64741-65-7
Naphtha (petroleum), hydrotreated heavy	64742-48-9
tert-Butanol	75-65-0
Cyclohexanone	108-94-1

### **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

### **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

### **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

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

TSCA : All substances listed as active on the TSCA inventory

### **TSCA list**

No substances are subject to a Significant New Use Rule.

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

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## **SECTION 16. OTHER INFORMATION**

### **Full text of other abbreviations**

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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 - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Revision Date : 12/25/2025

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