

# SAFETY DATA SHEET

## 1,1-bis(tert-butyl peroxy)-3,3,5-trimethylcyclohexane 90%

# SDS

Lanzhou Auxiliary Agent Plant Co., Ltd

- According to GHS (Sixth Revised Edition)

### Section 1 Product and Company Identification

#### > Product Identifier

Product Name	1,1-bis(tert-butyl peroxy)-3,3,5-trimethylcyclohexane 90%
Synonyms	-
CAS No.	6731-36-8
EC No.	229-782-3
Molecular Formula	C <sub>17</sub> H <sub>34</sub> O <sub>4</sub>

#### > Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Please consult manufacturer.
Uses Advised Against	Please consult manufacturer.

#### > Details of the Supplier of the Safety Data Sheet

Applicant Name	Lanzhou Auxiliary Agent Plant Co., Ltd
Application Address	No.358 Nanpoping Shajingyi Anning District, Lanzhou City, Gansu Province, China
Applicant Post Code	730079
Applicant Telephone	+86-931-7713668
Applicant Fax	+86-931-7766467
Applicant E-mail	543908218@qq.com
Supplier Name	Lanzhou Auxiliary Agent Plant Co., Ltd
Supplier Address	No.358 Nanpoping Shajingyi Anning District, Lanzhou City, Gansu Province, China
Supplier Post Code	730079
Supplier Telephone	+86-931-7713668
Supplier Fax	+86-931-7766467
Supplier E-mail	543908218@qq.com

#### > Emergency Phone Number

Emergency Phone Number	+86-931-7766493
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### Section 2 Hazards Identification

**Hazard class and label elements of the product according to GHS (the sixth revised edition):****> GHS Hazard Class**

<b>Organic Peroxides</b>	Type B
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Category 2
<b>Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard</b>	Category 1
<b>Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard</b>	Category 1

**> GHS Label Elements**

Pictogram



Signal Word

**Danger****> Hazard Statements**

<b>H241</b>	Heating may cause a fire or explosion
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure
<b>H400</b>	Very toxic to aquatic life
<b>H410</b>	Very toxic to aquatic life with long lasting effects

**> Precautionary Statements****Prevention**

<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P234</b>	Keep only in original packaging.
<b>P235</b>	Keep cool.
<b>P240</b>	Ground and bond container and receiving equipment.
<b>P260</b>	Do not breathe dust/fume/gas/mist/vapours/spray.
<b>P273</b>	Avoid release to the environment.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

<b>P314</b>	Get medical advice/attention if you feel unwell.
<b>P391</b>	Collect spillage.

**Storage**

<b>P403</b>	Store in a well-ventilated place.
<b>P410</b>	Protect from sunlight.
<b>P420</b>	Store separately.

**Disposal**

<b>P501</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Component	Concentration (weight percent, %)	CAS No.	EC No.
1,1-bis(tert-buty peroxy)-3,3,5-trimethylcyclohexane	Commercial secrets	6731-36-8	229-782-3

## Section 4 First Aid Measures

### > Description of First Aid Measures

<b>General Advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin Contact</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
<b>Protecting of First-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

### > Most Important Symptoms and Effects, both Acute and Delayed

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

### > Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

## Section 5 Fire Fighting Measures

### > Extinguishing Media

Suitable Extinguishing Media  
 Unsuitable Extinguishing Media

### > Specific Hazards Arising from the Substance or Mixture

- 1 Containers may explode when heated.
- 2 Fire exposed containers may vent contents through pressure relief valves.
- 3 May expansion or decompose explosively when heated or involved in fire.

### > Advice for Firefighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Section 6 Accidental Release Measure

**> Personal Precautions, Protective Equipment and Emergency Procedures**

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

**> Environmental Precautions**

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

**> Methods and Materials for Containment and Cleaning Up**

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## Section 7 Handling and Storage

**> Precautions for Handling**

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 Take precautionary measures against static discharges.

**> Precautions for Storage**

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

## Section 8 Exposure Controls/Personal Protection

**> Control Parameters****Occupational Exposure Limit Values**

No information available

**Biological Limit Values**

No information available

**Monitoring Methods**

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air ( Series standard ).

**> Engineering Controls**

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.

4 Set up emergency exit and necessary risk-elimination area.

### > Personal Protection Equipment

<b>Eye Protection</b>	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
<b>Hand Protection</b>	Wear protective gloves ( such as butyl rubber ) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
<b>Respiratory protection</b>	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
<b>Skin and Body Protection</b>	Wear fire/flame resistant/retardant clothing and antistatic boots.

## Section 9 Physical and Chemical Properties

<b>Appearance:</b> Colorless or slightly yellow liquid	<b>Odor:</b> No information available
<b>Odor Threshold:</b> No information available	<b>pH:</b> No information available
<b>Melting Point/Freezing Point (°C):</b> No information available	<b>Initial Boiling Point and Boiling Range (°C):</b> No information available
<b>Flash Point (°C)( Closed Cup):</b> No information available	<b>Evaporation Rate:</b> No information available
<b>Flammability:</b> Not applicable	<b>Upper/lower explosive limits[%(v/v)]:</b> Upper limit : No information available ; Lower limit : No information available
<b>Vapor Pressure (MPa):</b> No information available	<b>Relative Vapour Density(Air = 1):</b> No information available
<b>Relative Density(Water=1):</b> No information available	<b>Solubility:</b> No information available
<b>n-Octanol/Water Partition Coefficient:</b> No information available	<b>Auto-Ignition Temperature(°C):</b> No information available
<b>Decomposition Temperature (°C):</b> No information available	<b>Kinematic Viscosity (mm<sup>2</sup>/s):</b> No information available
<b>Particle characteristics:</b> Not applicable	

## Section 10 Stability and Reactivity

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical Stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of Hazardous Reactions</b>	No information available
<b>Conditions to Avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible Materials</b>	No information available
<b>Hazardous Decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11 Toxicological Information

### > Acute Toxicity

Component	CAS No.	LD <sub>50</sub> (Oral)	LD <sub>50</sub> (Dermal)	LC <sub>50</sub> (Inhalation, 4h)
1,1-bis(tert-butyl peroxy)-3,3,5-trimethylcyclohexane	6731-36-8	12918mg/kg(Rat)	No information available	No information available

> **Skin Corrosion/Irritation**

No information available

> **Serious Eye Damage/Irritation**

No information available

> **Skin Sensitization**

No information available

> **Respiratory Sensitization**

No information available

> **Germ Cell Mutagenicity**

No information available

> **Carcinogenicity**

ID	CAS No.	Component	IARC	NTP
1	6731-36-8	1,1-bis(tert-butyl peroxy)-3,3,5-trimethylcyclohexane	Not Listed	Not Listed

> **Reproductive Toxicity**

No information available

> **Reproductive Toxicity (Additional)**

No information available

> **STOT-Single Exposure**

No information available

> **STOT-Repeated Exposure**

May cause damage to organs through prolonged or repeated exposure(Category 2)(1,1-bis(tert-butyl peroxy)-3,3,5-trimethylcyclohexane)

> **Aspiration Hazard**

No information available

## Section 12 Ecological Information

> **Acute Aquatic Toxicity**

No information available

### > Chronic Aquatic Toxicity

No information available

### > Others

#### Persistence and Degradability

No information available

#### Bioaccumulative Potential

No information available

#### Mobility in Soil

No information available

#### Results of PBT and vPvB Assessment

1,1-bis(tert-buty peroxy)-3,3,5-trimethylcyclohexane does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

## Section 13 Disposal Considerations

#### Waste Chemicals

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

#### Contaminated Packaging Disposal Recommendations

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. Refer to section 13.1 and 13.2.

## Section 14 Transport Information

#### Transporting Label



#### Marine pollutant

Yes

#### UN Number

3101

#### UN Proper Shipping Name

ORGANIC PEROXIDE TYPE B, LIQUID

#### Transport Hazard Class

5.2

#### Transport Subsidiary Hazard Class

None

#### Packing Group

Meet the class II packaging requirements

## Section 15 Regulatory Information

### > International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
1,1-bis(tert-buty peroxy)-3,3,5-trimethylcyclohexane	✓	✓	✓	✓	✓	✓	✓	✓	✓

【EINECS】 European Inventory of Existing Commercial Chemical Substances.

【TSCA】 United States Toxic Substances Control Act Inventory.

【DSL】 Canadian Domestic Substances List.

- 【IECSC】 China Inventory of Existing Chemical Substances.
- 【NZIoC】 New Zealand Inventory of Chemicals.
- 【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.
- 【KECI】 Existing and Evaluated Chemical Substances.
- 【AICS】 Australia Inventory of Chemical Substances.
- 【ENCS】 Existing And New Chemical Substances.

**Note**

"√" Indicates that the substance included in the regulations

"×" That no data or included in the regulations

## Section 16 Additional Information

<b>Creation Date</b>	2017/12/21
<b>Revision Date</b>	2017/12/21
<b>Reason for Revision</b>	-

### > Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 6th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.