

Chemical Safety Data Sheet

Section 1 IDENTIFICATION

GHS Product identifier: 3,5,5-Trimethylhexanoyl peroxide.**Other means of identification:** /**Recommended use of the chemical and restrictions on use:** /**Supplier's details:****Emergency phone number:** /

Section 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Flammable Liquid Category 4, Organic peroxides Types D, Specific Target Organ Toxicity-Single Exposure Category 3 (narcotic effect), Aspiration Hazard Category 1, Hazardous to The Aquatic Environment (Chronic) Category 2.

GHS Label elements, including precautionary statements:

Symbol:



Signal word: Danger

Hazard statement(s): Combustible liquid. Heating may cause a fire. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original container. Keep cool. Ground and bond container and receiving equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response:

In case of fire: use water mist, foam, dry powder to extinguish. IF SWALLOWED: Immediately call a POISON CENTER/doctor/...Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/...if you feel unwell. Collect spillage.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Store at temperatures not exceeding ... °C/...°F. Store away from other materials. Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification: /

Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
3,5,5-Trimethylhexanoyl peroxide	3851-87-4	75.45%
Isododecane	31807-55-3	24.55%

Section 4 FIRST AID MEASURES

Description of necessary first aid measures

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Remove contaminated clothing and rinse with plenty of running water. **Zhenghua Group**

In case of eye contact: Rinse thoroughly with plenty of running water for at least 15 minutes and consult a physician.

If ingestion: Rinse mouth with water. Consult a physician.

Most important symptoms/effects, acute and delayed: /

Indication of immediate medical attention and special treatment needed, if necessary: /

Section 5 FIREFIGHTING MEASURES

Suitable extinguishing media: FOR SMALL FIRE: Water spray, foam, CO₂ or dry chemical. DO NOT use water jets. FOR LARGE FIRE: Flood fire area with water from a distance.

Special hazards arising from the chemical: Will not burn but increases intensity of fire. May explode from friction, shock, heat or containment. Heating may cause expansion or decomposition leading to violent rupture of containers. Heat affected containers remain hazardous. Contact with combustibles such as wood, paper, oil or finely divided metal may produce spontaneous combustion or violent decomposition. May emit irritating, poisonous or corrosive fumes. Combustion/decomposition may produce acrid/toxic fumes of carbon monoxide (CO).

Special protective actions for fire-fighters: Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water courses. Consider evacuation (or protect in place). Fight fire from a safe distance, with adequate cover. Extinguishers should be used only by trained personnel. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

Section 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Clean up all spills immediately. No smoking, naked lights, ignition sources. Avoid all contact with any organic matter including fuel, solvents, sawdust, paper or cloth and other incompatible materials, as ignition may result. Avoid breathing dust or vapours and all contact with skin and eyes. Control personal contact with the substance, by using protective equipment.

Environmental precautions: Isolate contaminated areas and restrict access.

Methods and materials for containment and cleaning up: Minor Spills: Contain and absorb spill with dry sand, earth, inert material or vermiculite. DO NOT use sawdust as fire may result. Scoop up solid residues and seal in labelled drums for disposal. Major Spills: Contain spill with sand, earth or other clean, inert materials. NEVER use organic absorbents such as sawdust, paper, cloth; as fire may result. Avoid any contamination by organic matter. Use spark-free and explosion-proof equipment. Collect any recoverable product into labelled containers for possible recycling. DO NOT mix fresh with recovered material. Collect residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. Decontaminate equipment and launder all protective clothing before storage and re-use.

Section 7 HANDLING AND STORAGE

Precautions for safe handling: Avoid personal contact and inhalation of dust, mist or vapours. Always wear protective equipment and wash off any spillage on clothing. Use in well ventilated areas, prevent accumulation of vapours. Keep material away from light, heat, ignition sources, flammables and combustibles. Keep dry and away from incompatible materials. Keep cool and below defined Control Temperature. Avoid friction, shock or containment. Use non-sparking equipment. Avoid physical damage to containers

Conditions for safe storage, including any incompatibilities: Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. **WARNING:** Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from incompatible materials. Store away from foodstuff containers. **DO NOT** stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location.

Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Appropriate engineering controls: Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances.

Individual protection measures

Eye/face protection: Safety glasses with side shields. Chemical goggles.

Skin protection: Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber.

Respiratory protection: Type A-P Filter of sufficient capacity.

Thermal hazards: /

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour etc)	Colorless transparent liquid.
Odour	/
Odour Threshold	/
pH	/
Melting point/freezing point	/
Initial boiling point and boiling range	/
Flash point	63.0°C
Evaporation rate	/
Flammability (solid, gas)	/
Upper/lower flammability or explosive limits	/
Vapour pressure	/
Vapour density	/
Relative density	/

Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	/
Auto-ignition temperature	/
Decomposition temperature	/
Viscosity	/



Section 10 STABILITY AND REACTIVITY

Reactivity: /**Chemical stability:** This material is stable in normal temperature.**Possibility of hazardous reactions:** Organic peroxides may decompose explosively, burn rapidly, be impact and/or friction sensitive and react dangerously with many other substances.**Conditions to avoid:** Spark, high temperature and static electricity.**Incompatible materials:** Flammable materials and reducing agents.**Hazardous decomposition products:** Oxycarbides.

Section 11 TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Inhaled, swallowed, skin, eyes.**Symptoms related to the physical, chemical and toxicological characteristics:** /**Acute health effects:** Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. Ingestion of organic peroxides may produce nausea, vomiting, abdominal pain, intoxication, cyanosis and severe central nervous system depression. Skin contact will result in rapid drying, bleaching, leading to chemical burns on prolonged contact. Eye contact with organic peroxides may produce superficial opacity, redness, swelling of the membranes, and burns on prolonged contact.**Chronic health effects:** Chronic exposure to certain peroxides produces allergic dermatitis (with redness and scaling of the skin) and asthmatic wheezing.**Numerical measures of toxicity(such as acute toxicity estimates):** /

Section 12 ECOLOGICAL INFORMATION

Toxicity:

ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE
LC50	96	Fish	ca.7.3mg/L
EC50	48	Crustacea	>1-mg/L
EC50	72	Algae or other aquatic plants	41mg/L
EL100	48	Crustacea	>1-mg/L
NOEC	72	Algae or other aquatic plants	>0.01mg/L

Persistence and degradability: /**Bioaccumulative potential:** /**Mobility in soil:** /**Other adverse effects:** /

Section 13 DISPOSAL CONSIDERATIONS

Disposal methods: Dispose this product by safe burial. Damaged containers are prohibited from being reused and should be buried in the prescribed place.

Section 14 TRANSPORT INFORMATION

UN number: 3115.**UN proper shipping name:** ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED.**Transport hazard class(es):** 5.2.**Packing group, if applicable:** /**Environmental hazards:** /**Special precautions for user:** /

Section 15 REGULATORY INFORMATION

Regulations: This safety data sheet is in compliance with the following national standards: GB/T 16483-2008, GB 13690-2009, GB 18218-2018, GB 15258-2009, GB 6944-2012, GB 190-2009, GB/T 191-2008, GB 12268-2012, GA 57-1993, GB/T 15098-2008, GBZ 2.1-2007, GBZ 2.2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation [Published by the Ministry of Railways, 2008], Dangerous Chemicals Safety Administrative Regulation [Published by the State Council, 2011].

Section 16 OTHER INFORMATION

References	UN Recommendations on the Transport of Dangerous Goods Model Regulations UN Globally Harmonized System of Classification and Labelling of Chemicals
Form Date	26-March-2020

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer/supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.