

## SECTION 1: Identification

### 1.1 GHS Product identifier

Product name tert-pentyl 2-ethylperoxyhexanoate

### 1.2 Other means of identification

Product number -

Other names A9262;EINECS 211-687-3;tert-amylperoxy 2-ethylhexanoate

### 1.3 Recommended use of the chemical and restrictions on use

Identified uses Industrial and scientific research uses.

Uses advised against no data available

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

Organic peroxides, Type D

Skin sensitization, Sub-category 1B

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

### 2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word

Danger

Hazard statement(s)

H242 Heating may cause a fire

H317 May cause an allergic skin reaction

H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

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/...

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

Response

P370+P378 In case of fire: Use ... to extinguish.

P302+P352 IF ON SKIN: Wash with plenty of water/...

P333+P317 If skin irritation or rash occurs: Get medical help.

P321 Specific treatment (see ... on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Storage

P403 Store in a well-ventilated place.

P410 Protect from sunlight.

P411 Store at temperatures not exceeding 30°C/86°F.

P420 Store separately.

Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### 2.3 Other hazards which do not result in classification

no data available

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

| Chemical name                      | Common names and synonyms          | CAS number | EC number | Concentration |
|------------------------------------|------------------------------------|------------|-----------|---------------|
| tert-pentyl 2-ethylperoxyhexanoate | tert-pentyl 2-ethylperoxyhexanoate | 686-31-7   | 211-687-3 | 100%          |

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

#### **Following skin contact**

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### **Following eye contact**

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### **Following ingestion**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

### **4.2 Most important symptoms/effects, acute and delayed**

no data available

### **4.3 Indication of immediate medical attention and special treatment needed, if necessary**

no data available

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## **SECTION 5: Fire-fighting measures**

### **5.1 Suitable extinguishing media**

Use dry chemical, carbon dioxide or alcohol-resistant foam.

### **5.2 Specific hazards arising from the chemical**

no data available

### **5.3 Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

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## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### **6.2 Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

### **6.3 Methods and materials for containment and cleaning up**

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

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## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Occupational Exposure limit values**

no data available

#### **Biological limit values**

no data available

### **8.2 Appropriate engineering controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

### **8.3 Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection**

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

**Skin protection**

Wear fire/flamm resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Respiratory protection**

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

**Thermal hazards**

no data available

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**SECTION 9: Physical and chemical properties and safety characteristics**

|                                                                 |                                 |
|-----------------------------------------------------------------|---------------------------------|
| <b>Physical state</b>                                           | Colorless to pale yellow liquid |
| <b>Colour</b>                                                   | no data available               |
| <b>Odour</b>                                                    | no data available               |
| <b>Melting point/freezing point</b>                             | -62Å°C                          |
| <b>Boiling point or initial boiling point and boiling range</b> | 277.8Å°C at 760 mmHg            |
| <b>Flammability</b>                                             | no data available               |
| <b>Lower and upper explosion limit/flammability limit</b>       | no data available               |
| <b>Flash point</b>                                              | no data available               |
| <b>Auto-ignition temperature</b>                                | no data available               |
| <b>Decomposition temperature</b>                                | no data available               |
| <b>pH</b>                                                       | no data available               |
| <b>Kinematic viscosity</b>                                      | no data available               |
| <b>Solubility</b>                                               | no data available               |
| <b>Partition coefficient n-octanol/water</b>                    | no data available               |
| <b>Vapour pressure</b>                                          | no data available               |
| <b>Density and/or relative density</b>                          | 0.948 g/cm3                     |
| <b>Relative vapour density</b>                                  | no data available               |
| <b>Particle characteristics</b>                                 | no data available               |

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

no data available

**10.2 Chemical stability**

no data available

**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

no data available

**10.5 Incompatible materials**

no data available

**10.6 Hazardous decomposition products**

no data available

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**SECTION 11: Toxicological information****Acute toxicity**

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/irritation**

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

**STOT-single exposure**

no data available

**STOT-repeated exposure**

no data available

**Aspiration hazard**

no data available

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**SECTION 12: Ecological information****12.1 Toxicity**

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Other adverse effects**

no data available

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**SECTION 13: Disposal considerations****13.1 Disposal methods****Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

**Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

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**SECTION 14: Transport information****14.1 UN Number**

|                                                     |                                                  |                                                  |
|-----------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| ADR/RID: UN3119 (For reference only, please check.) | IMDG: UN3119 (For reference only, please check.) | IATA: UN3119 (For reference only, please check.) |
|-----------------------------------------------------|--------------------------------------------------|--------------------------------------------------|

**14.2 UN Proper Shipping Name**

|                                                                                                      |                                                                                                   |                                                                                                   |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| ADR/RID: ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (For reference only, please check.) | IMDG: ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (For reference only, please check.) | IATA: ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (For reference only, please check.) |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|

**14.3 Transport hazard class(es)**

|                                                  |                                               |                                               |
|--------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| ADR/RID: 5.2 (For reference only, please check.) | IMDG: 5.2 (For reference only, please check.) | IATA: 5.2 (For reference only, please check.) |
|--------------------------------------------------|-----------------------------------------------|-----------------------------------------------|

**14.4 Packing group, if applicable**

ADR/RID: (For reference only, please check.) IMDG: (For reference only, please check.) IATA: (For reference only, please check.)

#### 14.5 Environmental hazards

ADR/RID: Yes

IMDG: Yes

IATA: Yes

#### 14.6 Special precautions for user

no data available

#### 14.7 Transport in bulk according to IMO instruments

no data available

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

| Chemical name                                                            | Common names and synonyms          | CAS number | EC number |
|--------------------------------------------------------------------------|------------------------------------|------------|-----------|
| tert-pentyl 2-ethylperoxyhexanoate                                       | tert-pentyl 2-ethylperoxyhexanoate | 686-31-7   | 211-687-3 |
| European Inventory of Existing Commercial Chemical Substances (EINECS)   |                                    |            | Listed.   |
| EC Inventory                                                             |                                    |            | Listed.   |
| United States Toxic Substances Control Act (TSCA) Inventory              |                                    |            | Listed.   |
| China Catalog of Hazardous chemicals 2015                                |                                    |            | Listed.   |
| New Zealand Inventory of Chemicals (NZIoC)                               |                                    |            | Listed.   |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS)       |                                    |            | Listed.   |
| Vietnam National Chemical Inventory                                      |                                    |            | Listed.   |
| Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) |                                    |            | Listed.   |
| Korea Existing Chemicals List (KECL)                                     |                                    |            | Listed.   |

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### SECTION 16: Other information

#### Information on revision

Creation Date July 15, 2019

Revision Date July 15, 2019

#### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

#### References

- IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>
- HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: [http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>