

# SAFETY DATA SHEET

according to the Globally Harmonized System and US regulation 29 CFR 1910.1200

## TRIGONOX 121-CH75

Version 3

Revision Date 07/19/2021

Print Date 08/02/2021

US / Z8

### 1. IDENTIFICATION

Product name : TRIGONOX 121-CH75

Product Use Description : Specific use(s): Polymerization initiator

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### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance	Clear liquid
Color	colorless
Odor	Faint.

#### GHS Classification

Organic peroxides, Type D  
Skin sensitization, Category 1  
Aspiration hazard, Category 1  
Short-term (acute) aquatic hazard, Category 1  
Long-term (chronic) aquatic hazard, Category 1

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H242 Heating may cause a fire.

H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

## Precautionary Statements

### : **Prevention:**

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.  
P235 Keep cool.  
P261 Avoid breathing mist, vapours or spray.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.

### **Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P331 Do NOT induce vomiting.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
P391 Collect spillage.

### **Storage:**

P405 Store locked up.  
P410 Protect from sunlight.  
P411 Store at temperatures not exceeding 20°C/ 68°F.  
P420 Store away from other materials.

### **Disposal:**

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

## Carcinogenicity:

### 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 component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name : Organic peroxide  
Pure substance/mixture : Mixture

### Hazardous ingredients

Chemical name	CAS-No.	Classification	Concentration [% W/W]
tert-Amyl peroxy-2-ethylhexanoate	686-31-7	Org. Perox. D; H242 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute): 1 M-Factor (Chronic): 1	$\geq 74 - \leq 76$
Petroleum naphtha	64742-48-9	Asp. Tox. 1; H304 Aquatic Chronic 4; H413	$\geq 24 - \leq 26$

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Consult a physician.  
Show this material safety data sheet to the doctor in attendance.

Inhalation : If breathed in, move person into fresh air.  
Consult a physician after significant exposure.

Skin contact : Take off contaminated clothing and shoes immediately.  
Rinse immediately with plenty of water.  
If skin irritation persists, call a physician.

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.

Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

### Notes to physician

Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms

are known.

Risks : May be fatal if swallowed and enters airways.  
May cause an allergic skin reaction.

Treatment : Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting / Specific hazards arising from the chemical : CAUTION: reignition may occur.  
Supports combustion.  
Do not use a solid water stream as it may scatter and spread fire.  
Water spray may be ineffective unless used by experienced firefighters.  
Do not allow run-off from fire fighting to enter drains or water courses.  
Hazardous decomposition products formed under fire conditions.

Combustion products : Fire will produce smoke containing hazardous combustion products (see section 10).

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

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.

See also Section 9. Physical and chemical properties: Safety data

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Wear respiratory protection.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Emergency measures on accidental release : 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. Discharge into the environment must be avoided.
Methods for cleaning up / Methods for containment	: Soak up with inert absorbent material and dispose of as hazardous waste. Use only inert inorganic material such as vermiculite or perlite as absorbent. Keep mixture of absorbent material and spilled product wetted with water. Confinement must be avoided. Never return spills in original containers for re-use.
Reference to other sections	: For disposal considerations see section 13.  For personal protection see section 8.

## 7. HANDLING AND STORAGE

### Handling

Advice on safe handling	: For personal protection see section 8. Avoid formation of aerosol. Do not breathe vapors or spray mist. Avoid contact with skin. Smoking, eating and drinking should be prohibited in the application area. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	: Use explosion protected equipment. Keep away from sources of ignition - No smoking. No sparking tools should be used. 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.
Temperature class	: It is recommended to use electrical equipment of temperature group T3. However, autoignition can never be excluded.

### Storage

Requirements for storage areas and containers	: Prevent unauthorized access. No smoking. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. Keep only in original container. Store away from other materials.
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Minimum storage temperature: : Avoid temperatures below:  
-20 °C (-4 °F)

Maximum storage temperature: : 10 °C (50 °F)

Other data : If product freezes or separates, contact the manufacturer.

Maximum storage temperature is for quality only.

No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Petroleum naphtha	64742-48-9	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Heptane	142-82-5	TWA	85 ppm 350 mg/m3	NIOSH REL
		C	440 ppm 1,800 mg/m3	NIOSH REL
		TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		STEL	500 ppm 2,000 mg/m3	OSHA P0
		PEL	400 ppm 1,600 mg/m3	CAL PEL
		STEL	500 ppm 2,000 mg/m3	CAL PEL
		TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
Acetone	67-64-1	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm 590 mg/m3	NIOSH REL
		TWA	250 ppm	ACGIH
		TWA	1,000 ppm	OSHA Z-1

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			2,400 mg/m3	
		STEL	500 ppm	ACGIH
		STEL	1,000 ppm 2,400 mg/m3	OSHA P0
		TWA	750 ppm 1,800 mg/m3	OSHA P0
		C	3,000 ppm	CAL PEL
		PEL	500 ppm 1,200 mg/m3	CAL PEL
		STEL	750 ppm 1,780 mg/m3	CAL PEL
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m3	NIOSH REL
		ST	30,000 ppm 54,000 mg/m3	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m3	OSHA Z-1
		TWA	10,000 ppm 18,000 mg/m3	OSHA P0
		STEL	30,000 ppm 54,000 mg/m3	OSHA P0
		STEL	30,000 ppm 54,000 mg/m3	CAL PEL
		PEL	5,000 ppm 9,000 mg/m3	CAL PEL
Ethane	74-84-0	TWA	0.1 mg/m3 (Formaldehyde)	OSHA P0
		TWA	0.1 mg/m3 (Formaldehyde)	NIOSH REL

**Engineering measures** : Explosion proof ventilation recommended.  
Effective exhaust ventilation system

## Personal protective equipment

Respiratory protection : In the case of vapor or aerosol formation use a respirator with an approved filter.  
Filter A

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.  
When using do not eat or drink.  
When using do not smoke.

Wash hands before breaks and at the end of workday.  
Wash contaminated clothing before re-use.

## Environmental exposure controls

General advice : Prevent product from entering drains.  
Discharge into the environment must be avoided.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear liquid
Color	: colorless
Odor	: Faint.
Odor Threshold	: No data available
pH	: Not applicable
Melting point	: $\leq -4$ °F / $\leq -20$ °C
Boiling point/boiling range	: Decomposes below the boiling point.
Flash point	: Not applicable No flash point was obtained, but the product may release flammable vapor.
Evaporation rate	: No data available
Flammability (liquids)	: Decomposition products may be flammable.
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: not determined
Relative vapor density	: $> 1$ (68 °F / 20 °C) Solvent (Air = 1.0)
Relative density	: 0.9 (68 °F / 20 °C)
Bulk density	: Not applicable
Solubility(ies)	
Water solubility	: immiscible (41 °F / 5 °C)
Solubility in other solvents	: No data available



Partition coefficient: n-octanol/water	:	No data available
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)	:	95 °F / 35 °C
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Not classified as oxidizing.
Active Oxygen Content	:	5.2 %
Organic peroxides	:	75 %

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## 10. STABILITY AND REACTIVITY

Conditions to avoid	:	Confinement must be avoided. Heat, flames and sparks.
Materials to avoid	:	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.

Hazardous decomposition products	: tert-Amyl alcohol Heptane Acetone Carbon dioxide Methane Carbon oxides Ethane 3-(1,1-Dimethylpropoxy)heptane
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 at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.
Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: No dangerous reaction known under conditions of normal use.
Self-Accelerating decomposition temperature (SADT)	: 35 °C (95 °F)

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## 11. TOXICOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Hazard Summary

Acute toxicity	: Not classified based on available information.
Skin corrosion/irritation	: Not classified based on available information.
Serious eye damage/eye irritation	: Not classified based on available information.
Respiratory or skin sensitization	: Respiratory sensitization: Not classified based on available information. Skin sensitization: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified based on available information.
Carcinogenicity	: Not classified based on available information.
Reproductive toxicity	: Not classified based on available information.
STOT-single exposure	: Not classified based on available information.
STOT-repeated exposure	: Not classified based on available information.

Aspiration hazard : May be fatal if swallowed and enters airways.

## Potential Health Effects

Inhalation : Contains organic solvents.  
May be fatal if swallowed and enters airways.  
Inhalation may cause central nervous system effects.

Skin : Causes mild skin irritation.  
May cause an allergic skin reaction.

Eyes : May cause eye irritation.

Ingestion : May be fatal if swallowed and enters airways.

Aggravated Medical Condition : None known.

Symptoms of Overexposure : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

## Toxicology Assessment

Further information : Solvents may degrease the skin.

## Carcinogenicity:

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 component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## TOXICOLOGY DATA FOR THE INGREDIENTS:

### Toxicology Assessment

#### Component: Petroleum naphtha

CMR effects : Carcinogenicity: Not carcinogenic.  
Mutagenicity: Not mutagenic.  
Teratogenicity: No effects on or via lactation  
Reproductive toxicity: No toxicity to reproduction

### Test result

#### Component: tert-Amyl peroxy-2-ethylhexanoate

Acute oral toxicity : LD0: > 5,000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401

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	Test substance: yes
Acute inhalation toxicity	: LC50 (Rat, male and female): 42.2 mg/l Exposure time: 4 h Test atmosphere: aerosol Method: OECD Test Guideline 403 Information given is based on data obtained from similar substances. Test substance: no
Acute dermal toxicity	: LD0: > 2,000 mg/kg Species: Rabbit Method: OECD Test Guideline 402 Test substance: yes
Skin irritation	: Species: Rabbit Result: No skin irritation Classification: No skin irritation Exposure time: 24 h Test substance: yes
Eye irritation	: Species: Rabbit Result: No eye irritation Classification: No eye irritation Exposure time: 24 h Test substance: yes
Sensitization	: Maximization Test Species: Guinea pig Classification: The product is a skin sensitizer, sub-category 1B. Method: OECD Test Guideline 406
Repeated dose toxicity	: Species: Rat, male and female NOAEL: 450 mg/kg bw/day Application Route: Oral Method: OECD Test Guideline 408 GLP: yes
Germ cell mutagenicity Genotoxicity in vitro	: Ames test Salmonella typhimurium Result: negative Method: OECD Test Guideline 471 Test substance: yes  In vitro gene mutation study in mammalian cells mouse lymphoma cells Result: negative Method: OECD Test Guideline 476 Test substance: yes
Genotoxicity in vivo	: In vivo micronucleus test Species: Mouse

Method: OECD Test Guideline 474  
Dose: 500, 1000, 2000 mg/kg  
Exposure time: 24 h  
Result: negative  
Test substance: yes

Reproductive toxicity/Fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Strain: Wistar  
Application Route: Oral  
Dose: 0, 100, 300, 1000 mg/kg bw/day  
Frequency of Treatment: 1 daily  
General Toxicity Parent: NOAEL (No observed adverse effect level): 300 mg/kg bw/day  
Early Embryonic Development: NOAEL (No observed adverse effect level): 300 mg/kg body weight  
Method: OECD Test Guideline 421  
GLP: yes  
Information given is based on data obtained from similar substances.

Test Type: reproductive and developmental toxicity study  
Species: Rat, male  
Application Route: Oral  
Dose: 50, 250, 1000 mg/kg bw/day  
Frequency of Treatment: 1 daily  
General Toxicity Parent: NOAEL (No observed adverse effect level): 1,000 mg/kg bw/day  
Fertility: NOAEL (No observed adverse effect level): 1,000 mg/kg bw/day  
Early Embryonic Development: NOAEL (No observed adverse effect level): 250 mg/kg bw/day  
Method: OECD Test Guideline 421  
GLP: yes

Test Type: reproductive and developmental toxicity study  
Species: Rat, female  
Application Route: Oral  
Dose: 50, 250, 1000 mg/kg bw/day  
Frequency of Treatment: 1 daily  
General Toxicity Parent: NOAEL (No observed adverse effect level): 250 mg/kg bw/day  
Fertility: NOAEL (No observed adverse effect level): 250 mg/kg bw/day  
Early Embryonic Development: NOAEL (No observed adverse effect level): 250 mg/kg bw/day  
Method: OECD Test Guideline 421  
GLP: yes

**Component: Petroleum naphtha**

Acute oral toxicity : LD50: > 5,000 mg/kg  
Species: Rat  
Information taken from reference works and the literature.

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Acute dermal toxicity	: LD50: > 5,000 mg/kg Species: Rabbit Information taken from reference works and the literature.
Skin irritation	: Result: Repeated exposure may cause skin dryness or cracking. Method: OECD Test Guideline 404 Information taken from reference works and the literature.  Result: Mild skin irritation Information taken from reference works and the literature.
Sensitization	: Classification: Does not cause skin sensitization. Method: OECD Test Guideline 406 Information taken from reference works and the literature.
Carcinogenicity	: Result: no effects
Target Organ Systemic Toxicant - Single exposure	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Target Organ Systemic Toxicant - Repeated exposure	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration toxicity	: May be fatal if swallowed and enters airways.

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## 12. ECOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Ecotoxicology Assessment

Additional ecological information	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
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#### Further information on ecology

#### Hazardous to the ozone layer

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).

### COMPONENTS:

#### Ecotoxicology Assessment

**Component: tert-Amyl peroxy-2-ethylhexanoate**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

**Component: Petroleum naphtha**

Long-term (chronic) aquatic hazard : May cause long lasting harmful effects to aquatic life.

**Test result****Component: tert-Amyl peroxy-2-ethylhexanoate****Ecotoxicity effects**

Toxicity to fish : LC50: 8.66 mg/l  
Exposure time: 96 h  
Species: Poecilia reticulata (guppy)  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
Test substance: yes

NOEC: 2.1 mg/l  
Exposure time: 96 h  
Species: Poecilia reticulata (guppy)  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
Test substance: yes

Toxicity to daphnia and other aquatic invertebrates : EC50: 3.7 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Test Type: Immobilization  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
Test substance: yes

Toxicity to algae : ErC50: 0.28 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Test Type: Growth inhibition  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
Test substance: yes

EC10: 0.023 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Test Type: Growth inhibition  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
Test substance: yes

M-Factor (Acute)	: 1
M-Factor (Chronic)	: 1
Toxicity to bacteria	: EC50: > 1,000 mg/l Exposure time: 3 h Species: activated sludge Test Type: Respiration inhibition Analytical monitoring: not required Method: OECD Test Guideline 209 Test substance: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: EC50: 1.02 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 211

## Elimination information (persistence and degradability)

Bioaccumulation	: Bioconcentration factor (BCF): 682 Method: QSAR Bioaccumulation is not expected.
Mobility	: No data available
Distribution among environmental compartments	: Absorption / desorption log K <sub>oc</sub> : 3.24 Method: OECD Test Guideline 121
Biodegradability	: Test Type: Ready biodegradability Inoculum: activated sludge Concentration: 2 mg/l Result: Readily biodegradable. Biodegradation: 62 % Exposure time: 28 d Method: OECD Test Guideline 301D GLP: yes The 10 day time window criterion is not fulfilled. Test substance: yes

## Further information on ecology

Biochemical Oxygen Demand (BOD)	: No data available
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## Component: Petroleum naphtha

## Ecotoxicity effects

Toxicity to fish	: LC0: 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)
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Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates : EC0: 1,000 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Information taken from reference works and the literature.

Toxicity to algae : EC0: 1,000 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Information taken from reference works and the literature.

## Elimination information (persistence and degradability)

Bioaccumulation : No data available

Mobility : Disperses rapidly in air.

Biodegradability : Test Type: Ready biodegradability  
Biodegradation: 80 %  
Exposure time: 28 d  
Information taken from reference works and the literature.

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## 13. DISPOSAL CONSIDERATIONS

Product : The product should not be allowed to enter drains, water courses or the soil.  
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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## 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No. : UN 3115  
Class : 5.2  
Not permitted for transport

#### IMDG-Code

UN number : UN 3115  
Proper shipping name : ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE

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	CONTROLLED (tert-Amyl peroxy-2-ethylhexanoate)
Class	: 5.2
Packing group	: Not Assigned
Labels	: 5.2
EmS Code	: F-F, S-R
Marine pollutant	: yes (tert-Amyl peroxy-2-ethylhexanoate)
Remarks	: The control temperature is the maximum temperature at which the formulation can be transported safely during a prolonged period of time.

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## Further information for transport

Control temperature	: 20 °C (68 °F)
Emergency temperature	: 25 °C (77 °F)

## Domestic regulation

### 49 CFR

UN/ID/NA number	: UN 3115
Proper shipping name	: Organic peroxide type D, liquid, temperature controlled (tert-Amyl peroxy-2-ethylhexanoate, 75%)
Class	: 5.2
Packing group	: Not Assigned
Labels	: 5.2
ERG Code	: 148
Marine pollutant	: yes (tert-Amyl peroxy-2-ethylhexanoate)
Reportable Quantity	: This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.
Remarks	: The control temperature is the maximum temperature at which the formulation can be transported safely during a prolonged period of time.

## 15. REGULATORY INFORMATION

### Notification status

TCSI	: YES. On the inventory, or in compliance with the inventory
AIIC	: YES. On the inventory, or in compliance with the inventory
DSL	: YES. All components of this product are on the Canadian DSL
ENCS	: YES. On the inventory, or in compliance with the inventory
ISHL	: YES. On the inventory, or in compliance with the inventory
KECI	: YES. On the inventory, or in compliance with the inventory
PICCS	: YES. On the inventory, or in compliance with the inventory
IECSC	: YES. On the inventory, or in compliance with the inventory
NZIoC	: YES. On the inventory, or in compliance with the inventory
TSCA	: YES. All chemical substances in this product are either listed on the

TSCA Inventory or in compliance with a TSCA Inventory exemption.

For explanation of abbreviations, see section 16.

## TSCA list

TSCA 5(a)(2) : No substances are subject to a Significant New Use Rule.  
TSCA 12(b) : No substances are subject to TSCA 12(b) export notification requirements.

## 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  
Respiratory or skin sensitization  
Aspiration 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.

## 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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I 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

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

### Pennsylvania Right To Know

tert-Amyl peroxy-2-ethylhexanoate  
Petroleum naphtha

686-31-7  
64742-48-9

### 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.

## 16. OTHER INFORMATION

### Full text of H-Statements

H242	: Heating may cause a fire.
H304	: May be fatal if swallowed and enters airways.
H317	: May cause an allergic skin reaction.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H413	: May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
CAL PEL	: California permissible exposure limits for chemical contaminants (Title 8, Article 107)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
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
CAL PEL / STEL	: Short term exposure limit
CAL PEL / PEL	: Permissible exposure limit
CAL PEL / C	: Ceiling
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
NIOSH REL / C	: Ceiling value not be exceeded at any time.
OSHA P0 / TWA	: 8-hour time weighted average
OSHA P0 / STEL	: Short-term exposure limit
OSHA Z-1 / TWA	: 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

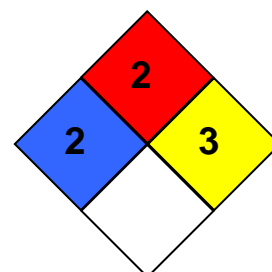
## Further information

### HMIS Classification

: Health Hazard: 2  
Chronic Health Hazard: /  
Flammability: 2  
Physical hazards: 3

### NFPA Classification

: Health Hazard: 2  
Fire Hazard: 2  
Reactivity Hazard: 3



## Notification status explanation

TCSI	Taiwan Chemical Substance Inventory (TCSI)
AIIC	Australian Inventory of Industrial Chemicals
DSL	Canadian Domestic Substances List (DSL)
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)
NZIoC	New Zealand. Inventory of Chemical Substances
TSCA	United States TSCA Inventory

**Further information**

Revision Date 07/19/2021

The information in this safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

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.