SECTION 1. IDENTIFICATION

Trade name : TAHP-88
Other means of identification : No data available

Manufacturer or supplier's details
Company name of supplier : United Initiators, Inc.

Address : 555 Garden Street
Elyria OH 44035 USA

Unit 3 – 363 Broadway, Suite 324
Winnipeg, MB R3C 3N9 CANADA

Telephone : +1-440-323-3112
Telefax : +1-440-323-2659

Emergency telephone : CHEMTREC US (24h): +1-800-424-9300
CHEMTREC WORLD (24h): +1-703-527-3887
CANUTEC (24h): 1-613-966-6666

For Transportation Incidents : TERRAPURE EMERGENCY RESPONSE SERVICES (24h):
1-800-567-7455

E-mail address of person responsible for the SDS : cs-initiators.nafta@united-in.com

Recommended use of the chemical and restrictions on use
Recommended use : polymerization initiators

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations
Flammable liquids : Category 3
Organic peroxides : Type E
Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 3
Acute toxicity (Dermal) : Category 3
Skin corrosion: Category 1B
Serious eye damage: Category 1
Skin sensitization: Category 1
Germ cell mutagenicity: Category 2
Short-term (acute) aquatic hazard: Category 2
Long-term (chronic) aquatic hazard: Category 2

GHS label elements
Hazard pictograms:

Signal Word: Danger

Hazard Statements:
H226 Flammable liquid and vapor.
H242 Heating may cause a fire.
H302 Harmful if swallowed.
H311 + H331 Toxic in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P234 Keep only in original packaging.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
SAFETY DATA SHEET

TAHP-88

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P361 + P364 Take off immediately all contaminated clothing and wash it 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:
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.
P411 Store at temperatures not exceeding 30 °C/ 86 °F.
P420 Store separately.

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

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical nature</td>
<td>Organic Peroxide Liquid mixture</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tert-pentyl hydroperoxide</td>
<td>3425-61-4</td>
<td>&gt; 85 - &lt;= 88</td>
</tr>
</tbody>
</table>

3 / 20
SECTION 4. FIRST AID MEASURES

General advice:
- Move out of dangerous area.
- Show this material safety data sheet to the doctor in attendance.
- Do not leave the victim unattended.
- Symptoms of poisoning may appear several hours later.
- No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.
- Call a physician immediately.

If inhaled:
- Call a physician or poison control center immediately.
- If unconscious, place in recovery position and seek medical advice.
- Keep respiratory tract clear.
- Call a physician immediately.
- If breathed in, move person into fresh air.
- Contact a poison control center.

In case of skin contact:
- In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing before re-use.
- Call a physician immediately.
- Contact a poison control center.
- If on skin, rinse well with water.
- If on clothes, remove clothes.
- If symptoms persist, call a physician.

In case of eye contact:
- Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
- In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Continue rinsing eyes during transport to hospital.
- Remove contact lenses.
- Protect unharmed eye.
- Keep eye wide open while rinsing.
- If eye irritation persists, consult a specialist.

If swallowed:
- Keep respiratory tract clear.
- Call a physician immediately.
- Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed:
- Harmful if swallowed.
- Toxic in contact with skin or if inhaled.
- May cause an allergic skin reaction.
- Causes serious eye damage.
- Suspected of causing genetic defects.
Causes severe burns.

Protection of first-aiders: First Aid responders should pay attention to self-protection and use the recommended protective clothing

Notes to physician: Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray jet
Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media: High volume water jet

Specific hazards during fire fighting: Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite.

The product burns violently.
Flash back possible over considerable distance.
Vapors may form explosive mixtures with air.
Cool closed containers exposed to fire with water spray.

Specific extinguishing methods: Do not use a solid water stream as it may scatter and spread fire.
Remove undamaged containers from fire area if it is safe to do so.
Use water spray to cool unopened containers.

Further information: 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.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Follow safe handling advice and personal protective equipment recommendations.
Beware of vapors accumulating to form explosive...
concentrations. Vapors can accumulate in low areas. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations".

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contact with incompatible substances can cause decomposition at or below SADT. Clear spills immediately. Suppress (knock down) gases/vapors/mists with a water spray jet. To clean the floor and all objects contaminated by this material, use plenty of water. Soak up with inert absorbent material. Isolate waste and do not reuse. Non-sparking tools should be used. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from combustible material.

Advice on safe handling : Do not swallow. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid formation of aerosol. Take precautionary measures against static discharges. Never return any product to the container from which it was originally removed. Provide sufficient air exchange and/or exhaust in work rooms. Avoid confinement. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in the application area. Wash thoroughly after handling. For personal protection see section 8.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Protect from contamination.

Conditions for safe storage:
- Avoid impurities (e.g. rust, dust, ash), risk of decomposition.
- Electrical installations / working materials must comply with the technological safety standards.
- Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Store in original container.
- Keep containers tightly closed in a cool, well-ventilated place.
- Store in accordance with the particular national regulations.

Materials to avoid:
- Keep away from strong acids, bases, heavy metal salts and other reducing substances.

Recommended storage temperature:
- 5 - 30 °C

Further information on storage stability:
- No decomposition if stored normally.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters:
Contains no substances with occupational exposure limit values.

Engineering measures:
- Minimize workplace exposure concentrations.

Personal protective equipment
Respiratory protection:
- In the case of dust or aerosol formation use respirator with an approved filter.

Filter type:
- ABEK-filter

Hand protection
Material:
- Nitrile rubber

Break through time:
- < 120 min

Glove thickness:
- 0.4 mm

Remarks:
- Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.
- For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove Wash hands before breaks and at the end of workday.
Eye protection: Tightly fitting safety goggles. Please wear suitable protective goggles. Also wear face protection if there is a splash hazard. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.

Hygiene measures: Avoid contact with skin, eyes and clothing. Keep away from food and drink. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid

Color: colorless

Odor: characteristic

Odor Threshold: No data available

pH: No data available

Melting point/range: No data available

Boiling point/boiling range: Decomposition: Decomposes below the boiling point.

Flash point: 47 °C Method: ISO 3679

Evaporation rate: No data available

Flammability (solid, gas): Not applicable

Upper explosion limit / Upper flammability limit: No data available

Lower explosion limit / Lower flammability limit: No data available

Vapor pressure: 43.2 hPa (25 °C)
Relative vapor density : No data available
Density : 0.92 g/cm³ (20 °C)
Solubility(ies)
   Water solubility : 63.3 g/l soluble
Partition coefficient: n-octanol/water : log Pow: 2.9
   Based on data from similar materials
Self-Accelerating decomposition temperature (SADT) : 80 °C
   Method: UN-Test H.4
   SADT - Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.
Viscosity
   Viscosity, dynamic : 5.2 mPa.s (20 °C)
Explosive properties : Not explosive
Oxidizing properties : The substance or mixture is not classified as oxidizing. Organic peroxide
Refractive index : 1.41 (20 °C)

SECTION 10. STABILITY AND REACTIVITY
Reactivity : Stable under recommended storage conditions.
Chemical stability : Stable under recommended storage conditions.
Possibility of hazardous reactions : Vapors may form explosive mixture with air.
Conditions to avoid : Protect from contamination.
   Contact with incompatible substances can cause decomposition at or below SADT.
   Heat, flames and sparks.
   Avoid confinement.
Incompatible materials : Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
Hazardous decomposition products : Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition.
SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Harmful if swallowed.
Toxic in contact with skin or if inhaled.

Product:

Acute oral toxicity : LD50 (Rat): 500 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 2.4 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): 446 mg/kg
Method: OECD Test Guideline 402

Components:

tert-pentyl hydroperoxide:

Acute oral toxicity : LD50 (Rat): 500 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 2.4 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): 446 mg/kg
Method: OECD Test Guideline 402

Di-tert-pentyl peroxide:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 423
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 22 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 436
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Skin corrosion/irritation
Causes severe burns.

**Product:**
Remarks: Extremely corrosive and destructive to tissue.
Species: Rabbit
Method: OECD Test Guideline 404
Result: Causes burns.

**Components:**
tert-pentyl hydroperoxide:
Species: Rabbit
Method: OECD Test Guideline 404
Result: Causes burns.

Di-tert-pentyl peroxide:
Species: Rabbit
Method: OECD Test Guideline 404
Result: Irritating to skin.

Serious eye damage/eye irritation
Causes serious eye damage.

**Product:**
Remarks: May cause irreversible eye damage.

**Components:**
tert-pentyl hydroperoxide:
Species: Rabbit
Result: Irreversible effects on the eye

Di-tert-pentyl peroxide:
Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 437

Respiratory or skin sensitization

**Skin sensitization**
May cause an allergic skin reaction.

**Respiratory sensitization**
Not classified based on available information.

**Product:**
Result: Probability or evidence of skin sensitization in humans
Remarks: Causes sensitization.
Components:

**tert-pentyl hydroperoxide:**
Result: May cause sensitization by skin contact.
Remarks: Based on data from similar materials

**Di-tert-pentyl peroxide:**
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitization.

Germ cell mutagenicity
Suspected of causing genetic defects.

**Product:**
Genotoxicity in vitro: Test Type: Ames test
Result: negative
Method: OECD Test Guideline 487
Result: positive
Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo: Remarks: No data available

Components:

**tert-pentyl hydroperoxide:**
Genotoxicity in vitro: Test Type: Ames test
Result: positive
Genotoxicity in vivo: Test Type: In vivo mammalian alkaline comet assay
Result: negative

**Di-tert-pentyl peroxide:**
Genotoxicity in vitro: Method: OECD Test Guideline 471
Result: negative
Method: OECD Test Guideline 473
Result: negative
Genotoxicity in vivo: Species: Mouse
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: positive
Germ cell mutagenicity - Assessment: Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.
Carcinogenicity
Not classified based on available information.

Product:
Remarks: This information is not available.

Reproductive toxicity
Not classified based on available information.

Product:
Effects on fertility: Remarks: No data available
Effects on fetal development: Remarks: No data available

Components:
tert-pentyl hydroperoxide:
Effects on fertility: Remarks: No data available
Effects on fetal development: Remarks: No data available

Di-tert-pentyl peroxide:
Effects on fertility: Species: Rat
Application Route: Ingestion
General Toxicity Parent: NOAEL: 100 mg/kg body weight
Method: OECD Test Guideline 422
Remarks: Based on data from similar materials
Species: Rat
Application Route: Ingestion
General Toxicity Parent: LOAEL: 300 mg/kg body weight
Method: OECD Test Guideline 422
Remarks: Based on data from similar materials
Effects on fetal development: General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

STOT-single exposure
Not classified based on available information.

Product:
Remarks: No data available

Components:
tert-pentyl hydroperoxide:
Remarks: No data available
STOT-repeated exposure
Not classified based on available information.

Product:
Remarks : No data available

Components:
tert-pentyl hydroperoxide:
Remarks : No data available

Repeated dose toxicity

Product:
Species : Rat
NOAEL : 100 mg/kg
Application Route : oral (gavage)
Method : OECD Test Guideline 421

Components:
tert-pentyl hydroperoxide:
Species : Rat
NOAEL : 100 mg/kg
Application Route : oral (gavage)
Method : OECD Test Guideline 421

Di-tert-pentyl peroxide:
Species : Rat
NOAEL : 300 mg/kg
Application Route : oral (gavage)
Exposure time : 28 d
Method : OECD Test Guideline 407

Aspiration toxicity
Not classified based on available information.

Product:
No data available

Components:
tert-pentyl hydroperoxide:
No data available

Further information

Product:
Remarks : Solvents may degrease the skin.
SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

**Product:**

Toxicity to fish:
Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): 6.7 mg/l
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants:
ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.2 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms:
EC50 (Bacteria): 138 mg/l
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

EC10 (Bacteria): 33 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

**Components:**

tert-pentyl hydroperoxide:
Remarks: No data available

Toxicity to fish:

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): 6.7 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants:
EC50 (Pseudokirchneriella subcapitata (green algae)): 1.2 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms:
EC50 (Bacteria): 138 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

EC10 (Bacteria): 33 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

Di-tert-pentyl peroxide:
Toxicity to fish : LC50: 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 73.1 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 36 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 15 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): 1,000 mg/l
Exposure time: 0.5 h
Method: OECD Test Guideline 209

Ecotoxicology Assessment
Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

Persistence and degradability

Product:
Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301D
Remarks: Based on data from similar materials

Components:

tert-pentyl hydroperoxide:
Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301D
Remarks: Based on data from similar materials

Di-tert-pentyl peroxide:
Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

tert-pentyl hydroperoxide:
Partition coefficient: n-octanol/water : log Pow: 2.9
Remarks: Based on data from similar materials
Di-tert-pentyl peroxide:
Bioaccumulation : Bioconcentration factor (BCF): 614
Partition coefficient: n-octanol/water : log Pow: 4.7

Mobility in soil
No data available

Other adverse effects
Product:
Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues : 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 wastes in an approved waste disposal facility.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG
UN number : UN 3107
Proper shipping name : ORGANIC PEROXIDE TYPE E, LIQUID (tert-AMYL HYDROPEROXIDE)
Class : 5.2
Packing group : Not assigned by regulation
Labels : 5.2

IATA-DGR
UN/ID No. : UN 3107
Proper shipping name : Organic peroxide type E, liquid (tert-Amyl hydroperoxide)
Class : 5.2
Packing group : Not assigned by regulation
Labels : Division 5.2 - Organic peroxides, Handling Label - Keep Away From Heat
SAFETY DATA SHEET

TAHP-88

Packing instruction (cargo aircraft) : 570
Packing instruction (passenger aircraft) : 570

IMDG-Code
UN number : UN 3107
Proper shipping name : ORGANIC PEROXIDE TYPE E, LIQUID (tert-AMYL HYDROPEROXIDE)
Class : 5.2
Packing group : Not assigned by regulation
Labels : 5.2
EmS Code : F-J, S-R
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

TDG
UN number : UN 3107
Proper shipping name : ORGANIC PEROXIDE TYPE E, LIQUID (tert-AMYL HYDROPEROXIDE)
Class : 5.2
Packing group : II
Labels : 5.2
ERG Code : 145
Marine pollutant : yes

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.

SECTION 15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:

TCSI (TW) : On the inventory, or in compliance with the inventory
TSCA (US) : All substances listed as active on the TSCA inventory
DSL (CA) : This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.

- tert-pentyl hydroperoxide
- Di-tert-pentyl peroxide

ENCS (JP) : On the inventory, or in compliance with the inventory
ISHL (JP) : On the inventory, or in compliance with the inventory
KECI (KR) : On the inventory, or in compliance with the inventory
IECSC (CN) : On the inventory, or in compliance with the inventory

Canadian lists
No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Further information

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification. These safety instructions also apply to empty packaging which may still contain product residues.


Revision Date : 03/23/2020

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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 % response; ELX - Loading rate associated with % response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with % 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; ICS0 - 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,
The information provided in this Material 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.