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SECTION 1: Identification of the hazardous chemical and of the supplier

Product identifier

Product name : TBHP-70-AQ

Chemical name : tert-butyl hydroperoxide

CAS-No. : 75-91-2

Recommended use of the chemical and restrictions on use

Recommended use : polymerisation initiators

Oxidizing agents

Manufacturer or supplier's details

Company : United Initiators (Shanghai) Co., Ltd

Address : Room 501, Bldg. 1, No. 1 Shangda Road

Shanghai, China, 200444

Emergency telephone number : +86 21 61172762

E-mail address : cs-initiators.cn@united-in.com

SECTION 2: Hazards identification

Classification of the hazardous chemical

Flammable liquids : Category 3

Organic peroxides : Type F

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 2

Acute toxicity (Dermal) : Category 3

Skin corrosion/irritation : Category 1C

Serious eye damage/eye irri-

tation

Category 1

Skin sensitisation : Category 1

Germ cell mutagenicity : Category 2

Carcinogenicity : Category 2

Specific target organ toxicity - : Category 3 (Respiratory system)

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single exposure

Hazardous to the aquatic environment - chronic hazard

Category 2

Label elements

Hazard pictograms











Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H242 Heating may cause a fire. H302 Harmful if swallowed. H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H335 May cause respiratory irritation. H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

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/ sparks/ open flames/ hot surfaces.

No smoking.

P220 Keep/ Store away from clothing/ combustible materials.

P233 Keep container tightly closed. P234 Keep only in original container.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting equip-

ment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe mist or vapours.

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.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

P281 Use personal protective equipment as required.

P284 Wear respiratory protection.

Response:

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> P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician 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): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

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 or doctor/ physician.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

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 for extinction.

P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up. P410 Protect from sunlight.

P411 + P235 Store at temperatures not exceeding 35 °C/95 °F. Keep cool.

P420 Store away from other materials.

Disposal:

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

Other hazards which do not result in classification

None known.

SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture Substance

Chemical nature Organic Peroxide

Aqueous solution

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|--------------------------|---------|-----------------------|
| tert-butyl hydroperoxide | 75-91-2 | > 68 -<= 72 |

SECTION 4: First aid measures

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General advice : Take off contaminated clothing and shoes immediately.

Call a physician immediately.

Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical

advice.

Move out of dangerous area.

Show this 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.

If inhaled : Administer oxygen if breathing is difficult or cyanosis is ob-

served.

Call a physician immediately.

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Contact a poison control center.

Respiratory tract burning possible if aerosols are inhaled. Call a physician or poison control centre immediately. If unconscious, place in recovery position and seek medical

advice.

Keep respiratory tract clear.

In case of skin contact : If symptoms persist, call a physician.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul-

ty.

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.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue 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 : Call a physician immediately.

Rinse mouth thoroughly with water.

Keep respiratory tract clear.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

Harmful if swallowed.

Toxic in contact with skin.

May cause an allergic skin reaction.

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Causes serious eye damage.

Fatal if inhaled.

May cause respiratory irritation. Suspected of causing genetic defects.

Suspected of causing cancer.

Causes severe burns. sensitising effects

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: Firefighting measures

Extinguishing media

Suitable extinguishing media : Water spray jet

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

Physicochemical hazards arising from the chemical

Specific hazards during fire-

fighting

Risk of explosion if heated under confinement.

Possible emission of gaseous decomposition products may

lead to a dangerous pressure build-up.

Avoid confinement.

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.

Do not allow run-off from fire fighting to enter drains or water

courses.

Vapours may form explosive mixtures with air.

Cool closed containers exposed to fire with water spray.

Special protective equipment and precautions for fire-fighters

Special protective equipment :

for firefighters

: Wear self-contained breathing apparatus for firefighting if nec-

essary.

Use personal protective equipment.

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use a water spray to cool fully closed containers.

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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.

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.

Hazchem Code : 2W

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Follow safe handling advice and personal protective equip-

ment recommendations.

Beware of vapours accumulating to form explosive concentra-

tions. Vapours can accumulate in low areas.

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe 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 decomposi-

tion at or below SADT. Clear spills immediately.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

To clean the floor and all objects contaminated by this materi-

al, 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 deter-

mine which regulations are applicable.

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SECTION 7: Handling and storage

Handling

Precautions for safe handling

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 vapours). Keep away from heat and sources of ignition.

Use only explosion-proof equipment.

Keep away from open flames, hot surfaces and sources of

ignition.

Keep away from combustible material.

Do not spray on a naked flame or any incandescent material.

Advice on safe handling : Open drum carefully as content may be under pressure.

Protect from contamination.

Do not swallow.

Do not breathe vapours/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 ap-

plication area.

Wash thoroughly after handling.

For personal protection see section 8.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Storage

Conditions for safe storage, including any incompatibilities

Conditions for safe storage : Store in original container.

Keep containers tightly closed in a cool, well-ventilated place.

Store in cool place.

Contamination may result in dangerous pressure increases -

closed containers may rupture. Prevent unauthorized access. Observe label precautions.

Store in accordance with the particular national regulations. Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with

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the technological safety standards.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Materials to avoid : Keep away from combustible materials.

Keep away from strong acids, bases, heavy metal salts and

other reducing substances.

Recommended storage tem-

perature

2 - 35 °C

Further information on stor-

age stability

: Stable under recommended storage conditions.

SECTION 8: Exposure controls and personal protection

Control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|--------------------------|---------|-------------------------------------|--|-------|
| tert-butyl hydroperoxide | 75-91-2 | TWA | 0.1 ppm | ACGIH |

Appropriate engineering

controls

Minimize workplace exposure concentrations.

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

Eye/face protection : Ensure that eyewash stations and safety showers are close

to the workstation location.

Please follow all applicable local/national requirements when selecting protective measures for a specific workplace. Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

Tightly fitting safety goggles

Please wear suitable protective goggles. Also wear face pro-

tection if there is a splash hazard.

Skin protection : Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure

potential.

Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis-

posable suits) to avoid exposed skin surfaces.

Wear as appropriate:

Flame retardant antistatic protective clothing.

Hand protection

Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0.40 mm

Material : butyl-rubber Break through time : 480 min

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Glove thickness : 0.47 mm

Remarks : The data about break through time/strength of material are

standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. 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 manufacturer. Wash hands before breaks and at the end of

workday.

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Filter type : ABEK-filter

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

Colour : colourless, clear

Odour : characteristic

Odour Threshold : not determined

pH : ca. 4.3

Melting point/ range : < 0 °C

Boiling point/boiling range : 96 °C

(1,013 hPa)

Decomposition: yes

Flash point : 38 °C

Method: closed cup

Evaporation rate : No data available

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Flammability (solid, gas) : Not applicable

Flammability (liquids) : Flammable liquid and vapour., Organic peroxide

Self-ignition : The substance or mixture is not classified as pyrophoric.

Upper explosion limit / Upper

flammability limit

ca. 99.99 %(V)

Lower explosion limit / Lower

flammability limit

ca. 5.7 %(V)

Vapour pressure : 50.78 hPa (25 °C)

Relative vapour density : ca. 3.1 (15 - 20 °C)

(Air = 1.0)

Relative density : not determined

Density : ca. 0.93 g/cm3 (20 °C)

Solubility(ies)

Water solubility : > 691 g/l soluble (20 °C)

Partition coefficient: n-

octanol/water

: log Pow: 0.85 (20 °C)

Auto-ignition temperature : not determined

Self-Accelerating decomposi-

tion 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 : not determined

Viscosity, kinematic : 4.42 mm2/s (20 °C)

Explosive properties : Not explosive In use, may form flammable/explosive vapour-

air mixture.

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Organic peroxide

Self-heating substances : The substance or mixture is not classified as self heating.

Surface tension : 69.9 mN/m, 20 °C

Refractive index : ca. 1.387 (20 °C)

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SECTION 10: Stability and reactivity

Reactivity Stable under recommended storage conditions.

Heating may cause a fire or explosion.

Chemical stability Stable under recommended storage conditions.

No decomposition if stored normally.

Possibility of hazardous reac-

tions

Vapours may form explosive mixture with air.

Conditions to avoid Protect from contamination.

Contact with incompatible substances can cause decomposi-

tion 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

Information on likely routes of : None known.

exposure

Acute toxicity

Harmful if swallowed.

Toxic in contact with skin.

Fatal if inhaled.

Product:

Acute oral toxicity : LD50 (Rat): 805 mg/kg

Method: Acute toxicity estimate

Assessment: The component/mixture is moderately toxic after

single ingestion.

LC50 (Rat): 1.19 mg/l Acute inhalation toxicity

Exposure time: 4 h Test atmosphere: vapour Method: Acute toxicity estimate

Assessment: The component/mixture is highly toxic after short

term inhalation.

Remarks: May cause respiratory irritation.

Acute dermal toxicity LD50 (Rabbit): 633 mg/kg

Method: Acute toxicity estimate

Assessment: The component/mixture is toxic after single con-

tact with skin.

Remarks: Dermal absorption possible

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Skin corrosion/irritation

Causes severe burns.

Product:

Species : Rabbit Method : Draize Test

Result : Corrosive, category 1C - where responses occur after expo-

sures between 1 hour and 4 hours and observations up to 14

days.

Remarks : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Species : Rabbit

Result : Irreversible effects on the eye Method : OECD Test Guideline 405

Remarks : May cause irreversible eye damage.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Exposure routes : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406
Result : Causes sensitisation.

Inhalation

Remarks : No data available

Remarks : Causes sensitisation.

Germ cell mutagenicity

Suspected of causing genetic defects.

Product:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: Directive 67/548/EEC, Annex, B.13/14

Result: positive

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

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Result: positive

Test Type: In vitro mammalian cell gene mutation test

Method: Directive 67/548/EEC, Annex, B.17

Result: positive

Genotoxicity in vivo : Test Type: Chromosomal aberration

Species: Mouse (male and female) Application Route: Intravenous

Method: Directive 67/548/EEC, Annex V, B.12.

Result: negative

Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Mouse (males)

Application Route: Intraperitoneal

Method: Directive 67/548/EEC, Annex, B.22

Result: positive

Test Type: In vivo mammalian alkaline comet assay

Species: Rat (male)

Application Route: inhalation (vapour) Method: OECD Test Guideline 489

Result: negative

Germ cell mutagenicity -

Assessment

Suspected of causing genetic defects., The GHS classification

specified by the authority

Carcinogenicity

Suspected of causing cancer.

Product:

Species : Rat, male and female Application Route : inhalation (vapour)

NOEC : 15 mg/l

Method : OECD Test Guideline 451

Symptoms : carcinogenic effects, Systemic toxicity

GLP : yes

Carcinogenicity - Assess-

ment

: Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Not classified due to lack of data.

Product:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat, male and female

Application Route: Oral

General Toxicity F1: NOAEL: 21 mg/kg body weight

Method: OECD Test Guideline 422

GLP: yes

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Effects on foetal develop-

ment

Test Type: Prenatal development toxicity study (teratogenicity)

Species: Rat, female Application Route: Oral

General Toxicity Maternal: NOAEL: 35 mg/kg body weight Developmental Toxicity: NOAEL: >= 35 mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

STOT - single exposure

May cause respiratory irritation.

Product:

Exposure routes : Inhalation

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Product:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Remarks : Not classified due to data which are conclusive although insuf-

ficient for classification.

Repeated dose toxicity

Product:

Species : Rat, male and female NOAEL : 21 mg/kg bw/day

Application Route : Oral

Method : OECD Test Guideline 422

GLP : yes

Species : Rat, male and female

NOAEC : 22.2 mg/m³

Application Route : inhalation (vapour)

Method : OECD Test Guideline 412

GLP : yes

Aspiration toxicity

Not classified due to lack of data.

Product:

Not classified due to data which are conclusive although insufficient for classification.

Further information

Product:

Remarks : This information is not available.

Remarks : Solvents may degrease the skin.

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SECTION 12: Ecological information

Ecotoxicity

Product:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 42.3 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 20 mg/l

Exposure time: 48 h
Test Type: Immobilization

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 2.1

mg/l

Exposure time: 72 h

Test Type: Growth inhibition Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): 24.3 mg/l

Test Type: Respiration inhibition of activated sludge

Toxicity to soil dwelling or-

ganisms

: LC50: 166 mg/kg

Exposure time: 14 d

End point: Mortality/concentration

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life., Based on test data

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects., Based on test

data

Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil
No data available

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Other adverse effects

Product:

Additional ecological infor-

mation

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 information

Disposal methods

Waste from residues : Dispose of wastes in an approved waste disposal facility.

The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Contaminated packaging : Dispose of in accordance with local regulations.

Clean container with water.

Dispose of contents/ container to an approved waste disposal

plant.

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.

SECTION 14: Transport information

International Regulations

UNRTDG

UN number : UN 3109

Proper shipping name : ORGANIC PEROXIDE TYPE F, LIQUID

(tert-BUTYL HYDROPEROXIDE)

Class : 5.2 Subsidiary risk : 8

Packing group : Not assigned by regulation

Labels : 5.2 (8) Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3109

Proper shipping name : Organic peroxide type F, liquid

(tert-Butyl hydroperoxide)

Class : 5.2 Subsidiary risk : 8

Packing group : Not assigned by regulation

Labels : Organic Peroxides, Keep Away From Heat, Corrosive

Packing instruction (cargo

aircraft)

Packing instruction (passen- : 5

ger aircraft)

570

570

16 / 19

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IMDG-Code

UN number : UN 3109

Proper shipping name : ORGANIC PEROXIDE TYPE F, LIQUID

(tert-BUTYL HYDROPEROXIDE)

Class : 5.2 Subsidiary risk : 8

Packing group : Not assigned by regulation

Labels : 5.2 (8) 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.

Hazchem Code : 2W

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

Safety, health, and environmental regulations specific for the hazardous chemical

Gefahrgruppe nach TRGS 741: II (German regulatory requirements)

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

The components 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

AIIC (AU) : On the inventory, or in compliance with the inventory

DSL (CA) : All components of this product are on the Canadian DSL

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

PICCS (PH) : On the inventory, or in compliance with the inventory

IECSC (CN) : On the inventory, or in compliance with the inventory

TECI (TH) : On the inventory, or in compliance with the inventory

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SECTION 16: Other information

Revision Date : 04.11.2024

Further information

Other information : This safety datasheet only contains information relating to

safety and does not replace any product information or prod-

uct specification.

These safety instructions also apply to empty packaging which

may still contain product residues.

The hazards on the label also apply to residues in the con-

tainer.

Sources of key data used to

compile the Safety Data

Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / 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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Sub-

TBHP-70-AQ



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stances 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

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