



鈞泰化工有限公司
ACE CHEMICAL CORP.

Aceox[®]

No.12-6, Hu Tsu Rd., Hu Pei Tsun Lin Kou Hsiang, Taipei Hsien Taiwan 244 ROC.
TEL : 886-2-2603-0269 FAX : 886-2-2603-7394

MATERIAL SAFETY DATA SHEET

Product / ACEOX TBEHC

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01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product label name : ACEOX TBEHC

Recommended uses : Free radical polymerization initiator 、 Unsaturated polyester curing agent 、
Intermediate of organic synthesis

Supplier : ACE CHEMICAL CORP.

Add : 4F-2, No.146, Wunsing Rd., Gueishan Dist., Taoyuan City, 33377 Taiwan ROC.

Tel : 886-3-327-1656 Fax : 886-3-327-0223

* Emergency Handling mobile telephone / Mobile :886-984-320656

02. HAZARDS IDENTIFICATION

Hazard classification of the substance : Flammable liquids 4, Organic peroxide D, Acute toxicity 5,
Skin corrosion/irritation 4,
Serious eye damage/eye irritation 2B,
Acute hazards to the aquatic environment 2

Content :



Symbol :

Fire 、

Exclamation mark

Signal Word : Warming

Hazard Statement : Combustible liquid

Heating may cause a fire
May be harmful if swallowed (oral)
May be harmful in contact with skin (dermal)
Causes eye irritation
Causes skin irritation
Toxic to aquatic life with long lasting effects

Precautionary statements :

Store in original containers. Keep within prescribed temperature range.
Do not contamination. Keep away from surface of heat.
Wearing chemical safety gloves while handling. Avoid skin and eye contact.
In case of contact, Immediately flush with water for 15 minutes.
If ingested, DO NOT induce vomiting. Seek emergency medical care.

Other Hazard : -

03. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description : tert-butyl (2-ethylhexyl) monoperoxy carbonate

Composition/ information on ingredients

Chemical name	% w/w	Cas number
tert-butyl (2-ethylhexyl) monoperoxy carbonate	≥95	034443-12-4

04. FIRST AID MEASURES



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General : Call emergency services or phone number immediately and seek medical attention.
Symptoms and effects : Irritating to eyes and skin. Dust may be irritating to the respiratory tract and cause symptoms of bronchitis.
Inhalation : Move to fresh air, rest, and then loosen clothing. Keep giving oxygen or artificial respiration to if not breathing. Hospitalize immediately.
Skin : Remove all contaminated clothing and shoes, and then wash immediately with plenty of water and Soap. In case of large-area burns and scalds, hospitalize immediately.
Eye : Continue washing eyes immediately with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek ophthalmologist Advice if irritation develops.
Ingestion : First, do not induce vomiting, immediately rinse mouth and lips with plenty of water and then Hospitalize. When vomiting happened, let sufferer lie on left side to avoid aspiration.
Advice to physician : Symptomatic treatment is advised.
Protection of first-aiders : Wear suitable respiratory equipment if insufficient ventilation. Wear protective suit to avoid contaminated again.

05. FIRE-FIGHTING MEASURES

Extinguishing media : Carbon dioxide, dry chemical powder, dry sand, water, foam. Don't use HALONES.
Specific exposure hazards : If involved in a fire or contact with combustible material, it will support combustion to fire or explosion. Decomposition under effect of heating causes flammable and toxic products, don't breathe fumes. Combustion products : Carbon dioxide, Carbon monoxide, tert-Butanol, 2-Ethylhexanol.
Specific methods : Use powder or carbon dioxide to extinguish a small fire and water to avoid re-ignition. Put out fire from at least 15 min by water spray. In case of fire nearby, quickly remove exposed containers.
Other information : Must wear protective gloves, a self-contained breathing apparatus and protective suit.

06 .ACCIDENTAL RELEASE MEASURES

Personal protection : Immediately evacuate nearby people to safe area and firemen must wear individual protection equipments in regulation. Wear respiratory equipment as insufficient ventilation. Strictly keep away from ignition sources and hot surfaces – especially prohibit smoking. Don't contact with skin, eyes
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and inhalation of vapors.

Environmental precautions :

Avoid the product entering into drains.
Avoid transpiring into the environment.

Methods for cleaning up :

Sweep up with dustpan and brush off inert material, flushing the remainder with water. Avoid dust generation. Keep contents moist. The waste should not be confined.

Other information :

Prevent re-ignition.
Forbid adding or blending other waste substrate into product residue.

07. HANDLING AND STORAGE

Handling :

Provide showers, eye-baths and self-contained breathing equipments nearby.
Storage and handling precautions is to ensure appropriate exhaust and ventilation.
Do not eat, drink & smoke when using and keep away from heat and ignition sources.
Wear suitable respiratory equipment when sampling and insufficient ventilation..
Keep away from sources of ignition, don't smoke.

Storage :

Keep away from heat and sources of ignition & the maximum storage temperatures is 32°C.It is recommended to store below 20°C under cooling control environment .
Keep Sealing up tightly and storing in a dry place & a well-ventilated environment.
Use only very clean containers and equipment free from traces of impurities and never return unused product to original container.
Do not reuse empty packaging to store other products. Store in well-insulated area (peroxide area) away from other substances.
Limit storage time to 12 months after manufacturing date.
Provide electrical earthing equipment in explosive atmospheres.

Other information :

Prohibit the product to contact with heavy metals & heavy metals compounds, strong oxidizing agents, strong acids and strong bases, rust, reducing agents, Sulphur compounds, ordinary metals (ordinary steel, copper) and natural or synthetic rubber.
Package in Polyethylene(PE), Polytetrafluoroethylene (PTFE) and Stainless steel.

Prohibited :

Ordinary metals(Ordinary steel) Copper, Rubber (natural or synthetic).
Rubber (natural or synthetic).

08. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls :

Ensure sufficient ventilation place and/or exhaust in working spaces.

PERSONAL PROTECTION :

Respiratory :

Wear suitable respiratory equipment.
Wear a self-contained breathing apparatus when hazardous gases/vapours/fumes occur.



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In case of dust formation use dust mask.
Hand : Wear protective gloves of neoprene or synthetic rubber.
Eye : Wear safety glasses and face-mask (during discharge)
Skin and body protection : Wear protective clothing.
Other information : Do not eat or drink, especially not smoke when using. Remove and wash contaminated clothing before re-use.

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid	Color : colorless
Odor : faint	Flash point : above the SADT value
Boiling point/range : not applicable (Decomposes)	Melting point/range : <-45°C
Flammability : Decomposition product may be flammable	Autoignition temperature : Test method not applicable
SADT : 70°C	PH : neutral
Explosive properties : no	Oxidizing properties : not applicable
Bulk density : not applicable	Vapour pressure : not determined
Density / (20 °c) : 0.94 g/cm ³	Solubility in water : immiscible
Solubility in other water : not determined	Partition coefficient n-octanol/water : not determined
Viscosity : 5.8mPa.s (20°C)	Explosion limits : not determined
A[O] : 6.17%	

10. STABILITY AND REACTIVITY

<p>Conditions to avoid :</p> <p>Keep storage at temperatures below 30 °c. Keep away from heat and sources of ignition. (avoid risk of exothermic decomposition). Heavy metals & heavy metals compounds, strong oxidizing agents, strong acids and strong bases, Rust, reducing agents, sulphur compounds, ordinary metals (ordinary steel, copper) and natural or Synthetic rubber.</p>
<p>Hazardous decomposition products :</p> <p>Thermal decomposition causes flammable and toxic products, very reactive free radicals. Vapors into the air may cause explosive.</p>
<p>Further information :</p> <p>SADT/ (self accelerating decomposition temperature) is 70 °c, it means a dangerous index when The temperature of circumstance in the packaging and transportation is at and above sadt, can Cause explosion or fire by itself since thermal decomposition.</p>



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11. TOXICOLOGICAL INFORMATION

Acute toxicity : tert-butyl (2-ethylhexyl) monoperoxy carbonate Oral LD50 rats : >5,000 mg/kg Dermal LD50 rabbit : > 2,000 mg/kg
Irritation : Skin Mildly irritating Eye Mildly irritating
Sensitization : Not seneitizing(guinea pig)
Genotoxicity : Not mutagenic

12. ECOLOGICAL INFORMATION

Ecotoxicity : fish : Acute toxicity, 96h-LC50 = 8.6 mg/l.(Poecilia reticulata) algae : 72h-LC50 : > 100 mg/l Bacteria : Activated sludge respiration inhibition test EC50 = 1,000 mg/l
Fate : Degradation Biotic/ Readily biodegradable (Closed bottle test).

13. DISPOSAL CONSIDERATIONS

Product : Do not discharge waste into drain. Eliminate the product by incineration after dilution in a suitable solvent, in accordance with local and national regulations.
Other information : For further advice, please contact ace chemical corporation

14. TRANSPORT INFORMATION

Land transport ADR / GGVS/RID / GGVE: Class : 5.2 Packaging group : II UN-Number : 3105 Description of the goods : organic peroxide type D, liquid
Sea transport (IMDG-code/ IMO) IMDG : Class : 5.2 Packaging group : II UN-Number : 3105 Marine pollutant : no Proper technical name : organic peroxide type D, liquid



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Air transport (ICAO-TI/ IATA-DGR)

ICAO/IATA :

Class : 5.2

UN-Number : 3105

Description of the goods : organic peroxide type D, liquid

15. REGULATORY INFORMATION

Symbol(s) / E Explosive

O Oxidizing

N Dangerous for the environment

R-pharse(s)/

R 7/ May cause fire.

R38/ Irritating to skin.

S-pharse(s)/

S 03/07 Keep container tightly closed in a cool place.

S14B/ Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps).

S26/ In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39/ Wear suitable protective clothing, gloves and eye/face protection.

S50/ Do not mix with peroxide-accelerators or reducing agents.

16. OTHER INFORMATION

Reference data	ACE Chemical Corp.	
Tabulation company	Company : ACE Chemical Corp.	
	Add : 4F-2, No.146, Wunsing Rd., Gueishan Dist., Taoyuan City, 33377 Taiwan, ROC.	
	Tel: 886-3-3271656	
Tabulator	Technical Department	Name: MSDS document team
Tabulation date	2018.06.12	

The information contained herein is based on our knowledge of the product, at the date of publishing and it is given in good faith. Please note the possible risks involved if this product is used for applications other than those for which it is intended. It is also the responsibility of the user to communicate ALL information related to the protection of Health, Safety & the Environment contained within this Material Safety Data Sheet to those persons involved in the handling of this product.