



鈞泰化工股份有限公司
ACE CHEMICAL CORP.

Aceox[®]

4F., NO.406, Sec.1, Wenhua 3rd Rd., Lin Kou Dist., New Taipei City 244, Taiwan R.O.C.
TEL: 886-2-2608-8931 FAX: 886-2-2608-3012

SAFETY DATA SHEET



Product / ACEOX 101

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

Product label name : ACEOX 101
Recommended uses : Free radical polymerization initiator 、 Unsaturated polyester curing agent 、 Intermediate of organic synthesis
Supplier : ACE CHEMICAL CORP.
Add : 4F., No. 406, Sec. 1, Wenhua 3 Rd , Linkou Dist., New Taipei City, Taiwan R.O.C.
Tel : +886-2-2608-8931 Fax : +886-2-2608-3012
* Emergency Handling mobile telephone / Mobile : 886-975-335799

02. HAZARDS IDENTIFICATION

Hazard classification of the substance :	
Flammable liquids 4, Organic peroxide Type C, Skin corrosion/irritation 2	
Content :	
	
Symbol :	Fire 、 Exclamation mark
Signal Word : Danger	
Hazard Statement : Combustible liquid	
	Heating may cause a fire
	Causes skin irritation
Precautionary statements :	
Store in original containers. Keep within prescribed temperature range.	
Do not contamination. Keep away from source 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 : 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane			
Composition/information on ingredients			
Item	%W/W	CAS number	Chemical name
1	92-100%	25215-62-7	2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane
2	0-8%	110-05-4	Bis(1,1-dimethylethyl) peroxide

04. FIRST AID MEASURES



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Symptoms and effects : Irritating to and skin.
GENERAL : Call emergency services or phone number immediately and seek medical attention.
Inhalation : Move to fresh air, rest, and then loosen clothing. In case of problems, consult a doctor. 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, waterspray. 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, Benzoic acid, tert-Butanol, Acetone, Benzene.
Specific methods : Use powder or carbon dioxide to extinguish a small fire and water to avoid re-ignition. Put out fire from at least 10-15 m 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 and inhalation of vapors.
Environmental precautions : Avoid the product entering into drains. Avoid transpiring into the environment.



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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.

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.
Fire and explosion prevention : Use explosion protected equipment. Keep away from sources of ignition - No smoking. Use non-sparking tools in areas where explosive vapor/air mixtures may occur. Do not cut or weld on or near this container even when empty.
Storage requirements : Store in accordance with local/national regulations. Keep away from food, drink and animal feeding stuffs. Store in a dry well ventilated place away from sources of heat and direct sunlight. Store separate from other chemicals. Keep only in the original container. Keep container upright to prevent leakage.
Storage : Avoid temperatures below 10°C. If product freezes or separates, contact ACE Chemical. For maximum quality store below: 38°C.
Other information : It is recommended to use electrical equipment of temperature group T3. However, autoignition can never be excluded. Wash hands thoroughly after handling or contact. Keep work clothes separate and do not take them home.

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



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Remove and wash contaminated clothing before re-use.

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor : Light yellow, clear liquid with characteristic odor.	Flammability : Decomposition products may be flammable.
Melting point/range : 1-10°C	Flash point : 68°C
Boiling point/range : not applicable (Decomposes)	Explosive properties : yes
Oxidizing properties : not applicable	Vapour pressure : <0.01 kPa (20°C);0.38 kPa (90°C)
Density : 0.87 g/cm ³ (20°C), Specific gravity = 0.87 (20°C)	Solubility in solvents : Soluble in most organic solvents
Solubility in water : immiscible	Bulk density : not applicable
PH value : neutral	Viscosity : 6.4 mPa.s (20°C)
Relative vapour density (air=1) : not determined	Peroxide content : >92 %
A[O] : >10.14 %	SADT : 80°C.
Partition coefficient n-octanol/water : 4.72 (20°C)	

10. STABILITY AND REACTIVITY

<p>Conditions to avoid :</p> <p>Keep storage at temperatures below 38°C. Avoid temperatures below 10°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, and ordinary metals (ordinary steel, copper).</p>
<p>Hazardous decomposition products :</p> <p>Thermal decomposition causes flammable and toxic products, very reactive free radicals, like Acetone, tert-Butanol, Methane, tert-Amyl alcohol, Ethane.</p>
<p>Other information :</p> <p>SADT/ (Self accelerating decomposition temperature) is 80°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>

11. TOXICOLOGICAL INFORMATION

<p>Acute toxicity :</p> <p>Oral LD50 : rat >2000 mg/kg Dermal LD50 : rat >2000 mg/kg</p>
<p>Irritation :</p> <p>Skin : Severely irritating Eye : Non-irritating Sensitization : Not sensitizing Genotoxicity : Ames test: Not mutagenic</p>

12. ECOLOGICAL INFORMATION

<p>Ecotoxicity :</p> <p>Fish: 96h-LC50 > 1000 mg/l. (Poecilia reticulata.)</p>



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Bacteria: > 1000 mg/l.

13. DISPOSAL CONSIDERATIONS

Product :

Do not discharge waste into drain.

Eliminate the product by incineration after dilution in a suitable flammable solvent, in accordance with local and national regulations.

Other information :

For further advice, please contact ACE Chemical corporation.

14. TRANSPORT INFORMATION

Land transport

Class : 5.2

Packing group : II

UN number : 3103

Proper Shipping Name :

Organic peroxide type C, liquid (2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane)

Other information : Label(s) 5.2

Sea transport (IMDG-code/IMO)

Class : 5.2

Packing group : II

UN number : 3103

EMS : F-J, S-R

Marine pollutant : no

Proper shipping name :

Organic peroxide type C, liquid (2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane)

Other information : Label(s) 5.2

Shipment should be accompanied with a copy of the notification. Label(s): 5.2

Air transport (ICAO-TI/IATA-DGR)

UN number : 3103

Class : 5.2

Proper shipping name :

Organic peroxide type C, liquid (2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane)

Other information : Label(s) 5.2

15. REGULATORY INFORMATION

Notification status

TCS : YES. On the inventory, or in compliance with the inventory

TSCA : YES. All substances listed as active on the TSCA inventory

AICS : YES. On the inventory, or in compliance with the inventory

DSL : YES. All components of this product are on the Canadian DSL

ENCS : NO. Not in compliance with the inventory



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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

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.

EPCRA - Emergency Planning and Community Right-to-Know

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 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Organic peroxides
Skin corrosion or irritation

SARA302 : This material does not contain any components with a section 302 EHS TPQ.

SARA313 : 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 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.



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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 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

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

Reference data	ACE Chemical Corp.	
Tabulation company	Company : ACE Chemical Corp.	
	Add: 4F., No. 406, Sec. 1, Wenhua 3 Rd , Linkou Dist., New Taipei City, Taiwan R.O.C.	
	Tel:+886-2-2608-8931	
Tabulator	Technical Department	Name : SDS documentation team
Tabulation date	2021/01/04	

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.