



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

MATERIAL SAFETY DATA SHEET



Product / ACEOX 101-45Bpd

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

Product label name : ACEOX 101-45Bpd
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 : 886-984-320656

02. HAZARDS IDENTIFICATION

Hazard classification of the substance : Organic peroxide Type E, 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 with Silicon dioxide			
Composition/information on ingredients			
Item	%W/W	CAS number	Chemical name
1	43-47	78-63-7	2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane
2	53-57		Inorganic carrier

04. FIRST AID MEASURES

Symptoms and effects :



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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.
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.



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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 :

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.
Remove and wash contaminated clothing before re-use.

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White powder	Odor : slight
Density : 1,300 kg/m ³ (20°C)	Flammability : Decomposition products may be



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	flammable.
Solubility in water : insoluble(20°C)	SADT : 80°C
PH value : neutral	A[O] : 4.9-5.0 %
Vapour pressure : No data	

10. STABILITY AND REACTIVITY

Conditions to avoid :

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).

Hazardous decomposition products :

Thermal decomposition causes flammable and toxic products, very reactive free radicals, like Acetone, tert-Butanol, Methane, tert-Amyl alcohol, Ethane.

Other information :

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.

11. TOXICOLOGICAL INFORMATION

Acute toxicity :

Oral LD50 : rat >2000 mg/kg

Dermal LD50 : rat >2000 mg/kg

Irritation :

Skin : Slightly irritating

Eye : Slightly irritating

12. ECOLOGICAL INFORMATION

Ecotoxicity :

No data

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 : 3108

Proper Shipping Name :

Organic peroxide type E, solid (2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane)



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Other information : Label(s) 5.2
Sea transport (IMDG-code/IMO) Class : 5.2 Packing group : II UN number : 3108 EMS : F-J, S-R Marine pollutant : no Proper shipping name : Organic peroxide type E, solid (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 : 3108 Class : 5.2 Proper shipping name : Organic peroxide type E, solid (2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane) Other information : Label(s) 5.2

15. REGULATORY INFORMATION

Product label name : 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane
R(isk) phrase(s) (EU classification)
Code/ Description R02. / Risk of explosion by shock, friction, fire or other sources of ignition. R07. / May cause fire. R38. / Irritating to skin.
S(afety) phrase(s) (EU classification)
Code/ Description S03/07. / 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.

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	2024/01/15	

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



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the protection of Health, Safety & the Environment contained within this Material Safety Data Sheet to those persons involved in the handling of this product.