



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 BIBP40Bpd

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

Product label name : ACEOX BIBP40Bpd
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 :886-928-032558

02. HAZARDS IDENTIFICATION

Hazard classification of the substance: Flammable solid 2, Acute toxicity 5, Skin corrosion/irritation 2, Serious eye damage/eye irritation 2B, Acute hazards to the aquatic environment 3	
Content :	
	
Symbol : Fire	Exclamation mark
Signal Word : Warning	
Hazard Statement : Flammable solid May be harmful if swallowed (oral) May be harmful in contact with skin (dermal) May be harmful if inhaled (gas, vapour, dust, mist) Causes skin irritation Causes eye irritation Harmful to aquatic life	
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 : -	



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03. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description : 1,3- and 1,4-DI(-2-(TERTIOBUTYLPEROXY)PROP-2-YL)BENZENE
approximately 38-42%
CAS : 25155-25-3
EINECS : 246-678-3
Inert mineral filler : Inorganic carrier : approximately 58-62%
CAS :
EINECS :

04. FIRST AID MEASURES

Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. In case of persistent problems : (*) Consult a doctor.
Skin contact : Wash immediately and abundantly with soap and water. (*)
Eye contact : Wash immediately, abundantly and thoroughly with water. If irritation persists, consult an ophthalmologist.
Ingestion : In case of problems, consult a doctor.

05. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray After cooling : Dry powder, Carbon dioxide (CO ₂)
Specific hazards : Contact with combustible material may cause fire. Thermal decomposition giving flammable and toxic products : Carbon monoxide. (*) Through thermal decomposition, formation of very reactive free radicals.
Specific methods : Fight fire from a distance (more than 15 m) (*) Cool containers / tanks with water spray. In case of fire nearby, remove exposed containers.
Special protective equipment for firefighters : Wear a self-contained breathing apparatus and protective suit.

06. ACCIDENTAL RELEASE MEASURES

Personal protection : Evacuate non-essential staff and those not equipped with individual protection apparatus. Remove all sources of heat and ignition. Do not smoke. Avoid contact with skin and eyes and inhalation of vapours./dusts Wear personal protective equipment. In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental protection :



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Do not release into the environment.
Do not let the product enter into drains.

Methods for cleaning up : -

Recovery :

Use antispark tools
Collect the product by mixing it with an inert material: vermiculite, perlite.
Collect into suitable labelled containers for disposal. (Do not confine.).
Never return spillages to original containers for reuse
Maintain in moist state.
Wash the remainder with water.
Recover waste water for processing later

Disposal / See Section : 13

07. HANDLING AND STORAGE

Handling :

Technical measures/Precautions :

Storage and handling precautions applicable to products :
SOLID (*)
OXIDIZING
Ensure appropriate exhaust and ventilation at machinery.
Provide showers, eye-baths.
Provide water point nearby. (*)
Provide self-contained breathing apparatus nearby.

Safe handling advice :

Great cleanliness in work areas is a necessary and important factor for safety. (*)
Strictly limit the quantities of product in the work area to those which are absolutely necessary for the work in hand. (*)
Handle and open container with care.
Avoid dust formation.
Protect from contamination.
In case of insufficient ventilation, wear suitable respiratory equipment

Storage : -

Technical measures/storage conditions :

Keep at temperatures below 30°C.
Keep away from heat and sources of ignition.
Store in well insulated area (peroxide area) away from other substances.
Keep hermetically closed in a dry, cool and well-ventilated place.
Use only very clean containers and equipment free from traces of impurities.
Keep only in original container.
Never return unused product to original container
Do not reuse empty packaging to store other products.
Limit storage time to 12 months after manufacturing date.
Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres.
Consult ACE CHEMICAL before storing.

Incompatible products(*) : -

Strong oxidizing agents, Strong acids and strong bases, Sulphur compounds,
Reducing agents, Amines, heavy metal compounds, heavy metals,
Rust, ash, dusts (risk of self-accelerating exothermic decomposition).

Packaging materials :



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Recommended : Polyethylene Polytetrafluoroethylene (PTFE) Stainless steel
Prohibited : Ordinary metals (Ordinary steel), Copper, and Rubber (natural or synthetic).

08. EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective provisions : Ensure sufficient air exchange and/or exhaust in work areas.
Control parameters : -
Exposure limits : Dusts : USA-ACGIH 1997 : TLV-TWA = 10 mg/m ³ Respirable dusts :
Personal protection equipment : -
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. In case of hazardous gases/vapours/fumes, wear a self-contained breathing apparatus.
Hand protection : Gloves (PVC, neoprene).
Other information : Do not eat or drink, especially not smoke when using. Remove and wash contaminated clothing before re-use.
Eye protection : Safety glasses..
Skin and body protection : Protective clothing.
Specific hygiene measures : Remove and wash contaminated clothing before re-use. Avoid contact with skin and eyes and inhalation of vapours. Do not smoke. When using do not eat or drink.

09. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C) : solid (small cylinders)	Color : white
Odor : slight	PH : Not applicable
Boiling point/range(*) : Not applicable (Decomposes on heating).	Melting point/range (*) : Not applicable (Decomposes on heating)
Decomposition temperature : Self-Accelerating Decomposition Temperature (SADT) = 80°C. BAM method (Berlin)	Water : 1,3- and 1,4-DI(-2-(TERTIOBUTYLPEROXY)PROP-2-YL)BEN ZENE : (20°C) : < 1 g/l
Flash point : 1,3- and 1,4-DI(-2-(TERTIOBUTYLPEROXY)PROP-2-YL)BEN ZENE : Open cup : 130 - 135 °C Standard : ISO 2592 (Cleveland method).	Solvents : 1,3- and 1,4-DI(-2-(TERTIOBUTYLPEROXY)PROP-2-YL)BEN ZENE : Hexane and Chloroform >500 g/l Methanol <150 g/l



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Vapour pressure : No data	Active oxygen : 3.8 %
Density / (20°C) : 1630 kg/m ³	Solubility : -
Autoignition temperature : > 300 °C	

10. STABILITY AND REACTIVITY

<p>Conditions to avoid :</p> <p>Temperature above 30°C.(to maintain the technical properties of the product) Keep away from heat and sources of ignition. (risk of exothermic decomposition).</p>
<p>Materials to avoid :</p> <p>Violent reaction with : Strong oxidizing agents, Strong acids and strong bases, Sulphur compounds, Reducing agents, heavy metal compounds, Rust. Follow conditions of use with : Accelerators : Amines, Metallic salts.</p>
<p>Hazardous decomposition products :</p> <p>Temperatures above 80 °C :</p> <p>Thermal decomposition giving flammable and harmful products: Hydrocarbons, Propanone, Tertiobutanol. Thermal decomposition giving flammable and toxic products: Carbon monoxide (*) Through thermal decomposition, formation of very reactive free radicals.</p>
<p>Further information :</p> <p>Half-life time in n-Dodecane(0.2 mol/l) at 124 °C = 10h (*) t_{1/2} life (0.2 mol/l Benzene , 121/142/185 °C) = 10h / 1h / 1min</p>

11. TOXICOLOGICAL INFORMATION

<p>Acute toxicity : - According to its composition, can be considered as : (*) 1,3- and 1,4-DI(-2-(TERTIOBUTYLPEROXY)PROP-2-YL)BENZENE : (*)</p>
<p>Inhalation (*)</p> <p>In animals : Practically not harmful by inhalation. (*) Inhalation of vapours from heated product : (*) No mortality in rat at 100 mg/m³ (for 4 h). (*)</p>
<p>Ingestion :</p> <p>In animals : Practically not harmful if swallowed. LD 50/ oral route : rat > 20 000 mg/kg.</p>
<p>Local effects : 1,3- and 1,4-DI(-2-(TERTIOBUTYLPEROXY)PROP-2-YL)BENZENE :-</p>
<p>Skin-contact : In animals: Slightly irritating to skin. (rabbit). (*)</p>
<p>Eye-contact : In animals: Slightly irritating to eyes. (rabbit).</p>
<p>Sensitization : 1,3- and 1,4-DI(-2-(TERTIOBUTYLPEROXY)PROP-2-YL)BENZENE :</p>
<p>Skin-contact : In animals: Not a skin sensitizer. (guinea pig)</p>
<p>Specific effects :</p> <p>1,3- and 1,4-DI(-2-(TERTIOBUTYLPEROXY)PROP-2-YL)BENZENE :</p> <p>Genotoxicity : Inactive in : - Ames test in vitro.</p>

12. ECOLOGICAL INFORMATION

Substance concerned : 1,3- and 1,4-DI(-2-(TERTIOBUTYLPEROXY)PROP-2-YL)BENZENE :
Persistence/degradability :



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In water / Not readily biodegradable : 0% after 23 d. (*) (OECD guideline 301 D Closed bottle test) (*)
Ecotoxicity : -
Aquatic toxicity : -
Acute toxicity : Practically not harmful to fish : LC50, 96h (Poecilia reticula) = 750 mg/l. (OECD guideline 203) (*)
Behaviour in water treatment plants : Respiration inhibition of activated sludge : EC 50, 30 min > 1000 mg/l (*)
Substance concerned / calcium carbonate : (*)
Ecotoxicity :
Aquatic toxicity :
Acute toxicity (*) : Practically not harmful to fish LC50 , 96h (Gambusia affinis) > 56 000 mg/l (*)

13. DISPOSAL CONSIDERATIONS

Disposal of product(*) : Do not dispose of waste into sewer. Destroy the solid product by incineration of small quantities at an approved waste disposal site only. (in accordance with local and national regulations). Consult ACE CHEMICAL
Disposal of packaging(*) : Do not release into the environment. (*)

14. TRANSPORT INFORMATION

ADR/RID : Not regulated
IMDG : Not regulated
IATA : Not regulated
Consult ACE CHEMICAL for any further information (*)

15. REGULATORY INFORMATION

EEC directive :
Safety data sheets : / D. 91/155/EEC amended by D.93/112/EEC : Dangerous substances and preparations
EC classification / labelling :
Dangerous preparations : D. 88/379/EEC amended by D. 93/18/EEC (3rd ATP) O /OXIDIZING R7/May cause fire. S3/7/ Keep container tightly closed in a cool place. S14 /Keep away from reducing agents (amines), acids, alkalis, heavy metal salts (accelerators) S36/37/39 /Wear suitable protective clothing, gloves and eye/face protection.
INVENTORIES / EINECS (EU) : conforms TSCA (USA) : conforms DSL (Canada) : conforms AICS (Australia) : conforms ECL (Korea) : conforms



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ENCS (Japan) : conforms

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:02-26088931	
Tabulator	Sales Executive	Name : Allen Chen
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 the protection of Health, Safety & the Environment contained within this Material Safety Data Sheet to those persons involved in the handling of this product.