

HANGZHOU LINGEBA TECHNOLOGY CO., LTD.

MATERIAL SAFETY DATA SHEET

Date Updated:01/30/2013

Version 1.5

Section 1-Product and Company Information

Product Name	ISOBORNYL ACRYLATE, TECH.
Brand	LINGEBA
Manufacturer	HANGZHOU LINGEBA TECHNOLOGY CO., LTD.
Address	OFFICE 1-913, GONGSHU PLAZA, GONGSHU DISTRICT, HANGZHOU, ZHEJIANG PROVINCE, P.R.CHINA
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Section2-Composition/Information on Ingredient

Substance Name	CAS #	SARA
ISOBORNYL METHACRYLATE	7534-94-3	No
Formula	C14H22O2	
Synonyms	2-Propenoicacid, 2-methyl-, 1,7,7-trimethylbicyclo [2.2.1] hept-2-ylester, exo-Methacrylic acid, isobornyl ester(6CI,7CI); Acryester IBX; Ageflex IBOMA; IBXMA;Isoborneol methacrylate; Light Ester IB-X; NKEster IB; SR 423; SR423A; Sipomer IBOMA;	

Section3-Hazards Identification

EMERGENCY OVERVIEW

Harmful.

Harmful by inhalation and if swallowed. Irritating to eyes, respiratory system and skin.

For additional information on toxicity, please refer to Section 11.

Section4-First Aid Measures

EYE EXPOSURE

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

SKIN EXPOSURE

In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Remove contaminated clothing and shoes while washing. Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

INGESTION

Do not induce vomiting, unless directed to do so by a physician. If victim is conscious and alert, wash out mouth with water and keep at rest. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side. Seek medical attention.

Section 5-Fire Fighting Measures.

FLASH POINT

219.2°F 104°C Method: closed cup

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

EXPOSURE HAZARD(S)

Material: Harmful liquid. Irritant.

Section 6-Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7-Handling and Storage

HANDLING

User Exposure: Do not breathe vapor. Avoid contact with eyes, skin and clothing.

STORAGE

Suitable: Keep tightly closed. Do not freeze. Store in a cool dry place.

SPECIAL REQUIREMENTS

Light sensitive.

Section 8-Exposure Controls /PPE

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU). Where risk assessment shows air-purifying respirator with multi-purpose

Combination (US) or type ABEK (EN14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before re-use.

Section 9-Physical/Chemical Properties

Molecular Weight	222.32AMU
Appearance	clear, colorless liquid
Color(APHA)	≤50
Sp. Gravity 25°C	0.97-0.99
Acidity value(mg KOH/g)	≤0.1
Visosity (cps at 25°C)	2-10
Moisture KF	≤0.05
MEHQ(PPM)	100-120
Assy	≧98.5%
ph	N/A
Water Solubility	insoluble
Melting Point Range	N/A
Freezing Point Range	-59 to 0°C (-74 to 32 F)
Boiling Point Range	> 140°C (284 F) at 20 mmHg
Vapor Pressure	<0.1 mmHg at 25°C (77F)
Vapor Density	8.4
Octanol/water Partition Coefficient	N/A

N/A=not available

Section 10 - Stability and Reactivity

STABILITY

Stable: Unstable.

Conditions of Instability: Light.

Materials to Avoid: Oxidizing agents, Reducing oxides agents, Peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will occur

Hazardous Polymerization Reactions: May polymerize on exposure to light.

Section 11 - Toxicological Information

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Multiple Routes: Vapor or mist is irritating to the eyes, mucous membranes, and upper respiratory tract. Harmful if inhaled or swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

TOXICITY DATA

Oral

Rat

4890 mg/kg

LD50

Remarks: Behavioral: Tremor. Lunge, Thorax, or
Respiration: Dyspnea. Skin and Appendages: Other: Hair.

Skin

Rabbit

>5000 mg/kg

LD50

IRRITATION DATA

Skin

Rabbit

0.5 ml

Remarks: Moderate irritation effect

Byes

Rabbit

0.1ml

Remarks: Mild irritation effect

Section 12–Ecological Information

No data available.

Section 13–Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14–Transport Information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15–Regulatory Information

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xn

Indication of Danger: Harmful.

R: 20/22-36/37/38

Risk Statements: Harmful by inhalation and if swallowed.

Irritating to eyes, respiratory system and skin.

S: 26-36

Safety Statements: In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Harmful.

Risk Statements: Harmful by inhalation and if swallowed.

Irritating to eyes, respiratory system and skin.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: NO

TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in
Accordance with the hazard criteria of the CPR, and the MSDS
Contains all the information required by the CRP.

DSL: Yes

NDSL: No

Section 16-Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.