

Material Safety Data Sheet

PART ONE: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UDERTAKING

1.1 Chemical Name/Commercial Name: IBOA Isobornyl acrylate

CAS No.: 5888-33-5

Product Code: UM2161

Company Name: Runhe Chemical (Guangzhou) Co., LTD

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1.2 The relevant identified application of the substance or mixture and the suggested unsuitable application

Recommended application: UV industry including coating, inks

PART TWO: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Skin corrosion/irritation	Category 2	H315 Causes skin irritation
Eye damage/eye irritation	Category 2	H319 Causes serious eye irritation

2.2 Labeling Elements

Symbols/Pictograms



2.3 Signal Word

WARNING

2.4 Hazard Statement

H319	Causes serious eye irritation
H315	Causes skin irritation
H317	Cause an allergic skin reaction
H335	Causes respiratory tract irritation
H411	Harmful to aquatic life with long lasting effects

2.5 Precautionary Statement

P280	Wear protective gloves and protective goggles or a protective mask.
P261	Avoid breathing dust/fume/gas/mist/vapor/spray
P312	Call poison control center or doctor if not feeling well
P305 + P351 + P338	If contact with eyes, rinse slowly and gently with water for a few minutes. Remove contact lenses if worn and easily removable, and continue rinsing.
P403 + P233	Store in a well-ventilated place and keep container closed.

2.6 Other Hazards

No data

PART THREE: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

CAS No.: 5888-33-5

Chemical Name: Isobornyl acrylate

Concentration: $\geq 99.2\%$

PART FOUR: FIRST AID MEASURES

4.1 First Aid Statement

Skin contact: Wash skin with soap and water, seek medical attention if necessary

Eye contact: Rinse thoroughly with plenty of water, including under eyelids. If possible, use lukewarm water. Remove contact lenses if worn and easily removable. Continue rinsing. If eye irritation persists, seek medical attention

Ingestion: Rinse mouth, drink 200-300 ml of water, seek medical attention

Inhalation: Keep calm, move to fresh air, seek medical attention

4.2 First-aid Personnel Statement

Use personal protective equipment as required.

Any indication requiring immediate medical attention and special treatment, receive symptomatic treatment.

PART FIVE: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing agent

Carbon dioxide, dry powder, water spray, foam. Use fire extinguishing measures appropriate to local conditions and surroundings

5.2 Unsuitable extinguishing agents

Do not use strong streams of water as it may spread and propagate the fire

5.3 Special hazards caused by chemicals

Hazardous combustion products: ---

5.4 Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing

PART SIX: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Take appropriate protective measures, wear sealed goggles, gloves, protective clothing and rubber boots for hygienic reasons. Ensure adequate ventilation, especially in confined areas.

6.2 Environmental Precautions

Do not allow to enter any sewer, spill on the ground or enter any body of water. Notify the local authorities if there is a large spillage that cannot be contained.

6.3 Containment and Cleanup Methods and Materials

Containment method: Prevent further leakage or spillage under safe and practicable circumstances.

Small spills: Absorb with soil, sand or other non-combustible material and transfer to containers for subsequent disposal.

Large spills: Pump the product to an appropriately labeled spare container

Cleanup method: Collect and transfer to properly labeled containers and thoroughly clean contaminated surfaces.

PART SEVEN: HANDLING AND STORAGE

7.1 Safe Handling Precaution

Keep away from heat sources, open flames, sparks and other igniters.

To facilitate the transfer of the product from its original container, do not use direct steam heat or products with heaters, thermal imaging or heat room warming products are recommended.

Open and handle containers carefully. Wear appropriate protective equipment when handling these materials;

7.2 Safe storage conditions, including any incompatibilities

Store in a cool, ventilated warehouse, away from fire and heat sources. Keep away from light. The storage temperature should not exceed 30°C. Keep the container sealed, strictly prohibit contact with air.

It should be stored separately from oxidizers, avoid mixing, and should not be stored in large quantities or store for a long time. Equipped with appropriate varieties and quantities of fire-fighting equipment, the storage area should be equipped with leakage emergency treatment equipment and suitable containment materials.

PART EIGHT: EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 Control Parameters

Recommend national occupational exposure limits or other equivalents, if any.

8.2 Exposure Control

Personal protective equipment

Respiratory protection:

Filtered gas masks (half mask) should be worn when airborne concentrations are exceeded. If necessary, wear a filtered gas mask (full mask) or air respirator.

Hand protection: Wear rubber oil-resistant gloves

Eye protection: Safety glasses with side shields (frame goggles)

Body protection: Wear anti-static coveralls

General safety and health measures: Smoking is strictly prohibited at the work site. Shower and change clothes after work. Pay attention to personal hygiene.

PART NINE: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic Physical and Chemical Properties

Appearance	Appearance: liquid; Color: colorless transparent
Odor	Slightly pungent odor
Odor Threshold	No data
pH	No data
Melting Point	No data
Freezing Point	No data
Boiling Point	> 97°C
Flashing Point	108°C
Evaporation Rate	No data
Flammability	No data
Upper Explosive Limit	No data
Lower Explosive Limit	No data
Flammability Point	No data
Vapour Pressure	No data
Density / Relative Density	No data
Relative Vapour Density	No data
Solubility / Water Solubility	Insoluble in water below 20°C
Logarithmic value of octanol/water partition	No data

coefficient	
Auto-ignition Temperature	No data
Decomposition Temperature	No data
Kinematic Viscosity	No data
Kinetic Viscosity	No data
Explosiveness	No data
Oxidability	No data

9.2 Other Information

Self-heating capacity: No data available, the product is liquid

Radioactivity: Non-radioactive during transportation

Hygroscopicity: No hygroscopicity

Surface activity: No data

Particle size distribution: The product is sold or used in non-solid or granular form

PART TEN: STABILITY AND REACTIVITY

10.1 Reactivity

Polymerization may occur under heat, light, and contact with peroxides.

10.2 Chemical Stability

The product is stable when stored and handled according to the specified specifications.

10.3 Possible Hazardous Chemical Reactions

No data

10.4 Conditions to Avoid

Heating

10.5 Incompatible Materials

Peroxides

10.6 Hazardous Substances from Decomposition

CO₂, CO, H₂O

PART ELEVEN: TOXICOLOGICAL INFORMATION

Acute toxicity: No data

Skin corrosion/irritation: Can irritate skin

Serious eye damage/irritation: Can irritate eyes

Respiratory or skin allergy: No data

Inhalation hazard: No data

Germ cell mutagenicity: No data

Carcinogenicity: No data

Reproductive toxicity: No data

Developmental toxicity: No data

Specific target organ toxicity (single exposure): No data

Specific target organ toxicity (repeated exposure): No data

PART TWELVE: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No data

12.2 Persistence and Degradability

No data

12.3 Potential Bioaccumulation

No data

12.4 Migration in soil

No data

12.5 PBT and vPvB evaluation results

No data

12.6 Other Harmful Effects

No data

PART THIRTEEN: DISPOSAL CONSIDERATIONS

13.1 Disposal method

Product: Incineration is recommended for disposal;

Contaminated packaging: Return container to manufacturer or dispose of in accordance with state and local regulations;

Disposal precautions: Refer to state and local regulations before disposal.

PART FOURTEEN: TRANSPORT INFORMATION

14.1 UN Number

UN3082

14.2 UN Proper Shipping Name

No data

14.3 UN Classification of Dangerousness

Class 9

14.4 Packing Type

III

14.5 Packing Mark

Class 9: Other dangerous substances and goods

14.6 Packing Method

No data

14.7 Marine Pollutants (Yes/No)

No data

14.8 Precautions for Transportation

Transportation vehicles should be equipped with appropriate varieties and quantities of fire-fighting equipment and leakage emergency response equipment. It is better to transport in the morning and evening during summer time. The tanks used for transportation should have grounding chains, and the tanks can be equipped with hole dividers to reduce the static electricity generated by vibration. It is strictly prohibited to mix and transport with oxidizing agent, acid, alkali, edible chemicals and so on. The transportation should avoid sunlight, rain and high temperature. It should be kept away from fire, heat source and high temperature area when stopping in transit. The exhaust pipe of the transporting vehicle must be equipped with fire fighting device, and it is prohibited to use mechanical equipment and tools which are easy to generate sparks for loading and unloading. Road transportation should be in accordance with the prescribed route. Do not stop in residential areas and densely populated areas. Slipping is prohibited during railroad transportation. Wooden boats and cement ships bulk transportation are strictly prohibited.

PART FIFTEEN: REGULATORY INFORMATION
15.1 Specific safety, health and environmental regulations/laws for the substance or mixture

Regulations on the Safe Management of Chemical Dangerous Goods (Effective December 1, 2011)

Regulations on the Safe Use of Chemicals in the Workplace ([1996] Ministry of Labor Issue No. 423);

Classification and labeling of commonly used hazardous chemicals (GB13690-92);
Occupational Exposure Limits for Hazardous Factors in the Workplace (GBZ 2-2007).

PART SIXTEEN: OTHER INFORMATION
16.1 Reference:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS, Fourth Revised Edition)

General Rules for Classification and Hazard Disclosure of Chemicals GB 13690-2009

Content and Item Sequence of Chemical Safety Data Sheets GB/T 16483-2008

Guidelines for the Preparation of Chemical Safety Data Sheets GB/T 17519-2013

Regulations for the Preparation of Chemical Safety Labels GB 15258-2009

DISCLAIMER

The information provided in this Material Safety data Sheet is correct based on the latest knowledge, information and perceptions available to us. The information provided is only a guide to safe operation, use, processing, storage, transport, disposal and discharge and shall not be intended for a guarantee or quality specification. The information only applies to the specific substance and may not apply to substances combined with any other substances or substances processed in any way, unless it is stated in the text. The product recipient is responsible for ensuring compliance with any ownership and current laws and regulations.