





## **DESIGN REPORT OF SAFETY DATA SHEET**

No.: 220100320417486E

Date: Jul.12,2022

Name of the sample	Isobutyl methacrylate	Э	(A)		
Applicant	Fushun Donglian An	xin Chemical Co., L	TD. 检验检测专用章 3201		
Supplier	Fushun Donglian An	xin Chemical Co., L	TD.		
Composition of the sample	Isobutyl methacrylate: ≥ 99.5%; Water: ≤ 0.5%				
Warranty of Design	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Ninth revised edition				
	Design Result of S	DS please see next	page.		
Designer	孙哲位	Approver	For and on behalf of CCIC JIANGSU CO., L中国检验认证集团江苏有限		

Notes: This SDS is valid before the implementation of the Tenth revised edition GHS.

Page 1 of 12

网址: www.ccicjs.com





# SAFETY DATA SHEET

SDS

No.: 220100320417486E

Warranty of Design: GHS (Ninth Revised

Edition)

Date: Jul.12,2022

## Section 1 Product and Company Identification

#### > Product Identifier

Product Name

Isobutyl methacrylate

Synonyms

-

CAS No.

97-86-9

EC No.

202-613-0

Molecular Formula

C8H14O2

## > Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified

Uses

Please consult manufacturer.

**Uses Advised Against** 

Please consult manufacturer.

## > Details of the Supplier of the Safety Data Sheet

**Applicant Name** 

Fushun Donglian Anxin Chemical Co., LTD.

**Application Address** 

No.7, East Qilong Road, Dongzhou District, Fushun City, Liaoning Province,

Applicant Post Code

P.R.China 113004

Applicant Telephone

+86-024-53783901

Applicant Fax

Applicant E-mail

dlax2011@163.com

**Supplier Name** 

Fushun Donglian Anxin Chemical Co., LTD.

Supplier Address

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P.R.China

Supplier Post Code

113004

Supplier Telephone

+86-024-53783901

Supplier Fax

\_\_\_\_

Supplier E-mail

dlax2011@163.com

## > Emergency Phone Number

**Emergency Phone** 

Number

+86-024-53783869

#### Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the ninth revised edition):

#### > GHS Hazard Class

电话 (Tel): +86-519-83277160

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SDS

Date: Jul. 12, 2022

Flammable Liquids

Skin

Corrosion/Irritation

Sensitization-Skin

Serious Eye

Damage/Eye Irritation Specific Target Organ

Toxicity (Single

Exposure) : Respiratory Tract

Irritation

Category 3

Category 2

Category 1

Category 2A

Category 3

### > GHS Label Elements

**Pictogram** 





Signal Word

#### Warning

#### > Hazard Statements

H226 Flammable liquid and vapour

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H335 May cause respiratory irritation

#### > Precautionary Statements

#### Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P264+P265 Wash hands and other contact area thoroughly after handling. Do not touch eyes.

Response

Page 3 of 12

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Date: Jul.12,2022

P319 Get medical help if you feel unwell.

P321 Specific treatment (see measures on this label).

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P332+P317 If skin irritation occurs: Get medical help.

P333+P317 If skin irritation or rash occurs: Get medical help.

P337+P317 If eye irritation persists: Get medical help.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use suitable extinguishing medium to extinguish.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected

areas with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

Storage

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/ international

regulations.

## Section 3 Composition/Information on Ingredients

Component	CAS No.	EC No.	Concentration (weight percent, %)
Isobutyl methacrylate	97-86-9	202-613-0	≥ 99.5
Water	7732-18-5	231-791-2	≤0.5

### Section 4 First Aid Measures

#### > Description of First Aid Measures

General Advice Immediate medical attention is required. Show this safety data sheet (SDS) to the

doctor in attendance.

Eve Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if

feel uncomfortable.

Skin Contact

Take off contaminated clothing and shoes immediately. Wash off with plenty of water

for at least 15 minutes and consult a physician if feel uncomfortable.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Call

a physician or Poison Control Center immediately.

Inhalation

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give

Page 4 of 12

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artificial respiration and consult a physician immediately.

Protecting of First-aiders Ensure that medical personnel are aware of the substance involved. Take precautions

to protect themselves and prevent spread of contamination.

## > Most Important Symptoms and Effects, both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

## > Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

## **Section 5** Fire Fighting Measures

### > Extinguishing Media

Suitable Extinguishing

Media

Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable

**Extinguishing Media** 

Do not use a solid water stream as it may scatter or spread fire.

## > Specific Hazards Arising from the Substance or Mixture

- 1 Will form explosive mixtures with air.
- Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
- 3 Vapours may travel to source of ignition and flash back.
- 4 Liquid and vapour are flammable.
- 5 Containers may explode when heated.
- 6 Fire exposed containers may vent contents through pressure relief valves.
- 7 May expansion or decompose explosively when heated or involved in fire.

#### > Advice for Firefighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### Section 6 Accidental Release Measure

## > Personal Precautions, Protective Equipment and Emergency Procedures

1 Avoid breathing vapors and contacting with skin and eye.

Page 5 of 12

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SDS

Date: Jul.12,2022

- 2 Beware of vapours accumulating to form explosive concentrations.
- 3 Vapours can accumulate in low areas.
- Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- 5 Ensure adequate ventilation. Remove all sources of ignition.
- 6 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 7 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

### > Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

## > Methods and Materials for Containment and Cleaning Up

- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## Section 7 Handling and Storage

#### > Precautions for Handling

- 1 Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
- 3 To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 4 Use explosion proof equipment.
- 5 Handling is performed in a well ventilated place.
- 6 Wear suitable protective equipment.
- 7 Avoid contact with skin and eyes.
- 8 Keep away from heat/sparks/open flames/ hot surfaces.
- 9 Take precautionary measures against static discharges.

#### > Precautions for Storage

- Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

#### Section 8 Exposure Controls/Personal Protection

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No.: 220100320417486E

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**SDS** Date: Jul.12,2022

#### > Control Parameters

**Occupational Exposure Limit Values** 

Component	Country/Pagion	Limit Value	- Eight Hours	Limit Value - Short Term		
Component	Country/Region	ppm	mg/m³	ppm	mg/m³	
Isobutyl methacrylate 97-86-9	Sweden	50	300	75	450	
	Denmark	25	145	50	290	
	Austria	50	300	75	450	

#### **Biological Limit Values**

No information available

#### **Monitoring Methods**

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

## > Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

## > Personal Protection Equipment

Eye Protection Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Hand Protection Wear protective gloves (such as butyl rubber), passing the tests according to EN

374(EU), US F739 or AS/NZS 2161.1 standard.

If exposure limits are exceeded or if irritation or other symptoms are experienced, use

a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387)

respirator cartridges.

Skin and Body

Respiratory protection

Protection

Wear fire/flame resistant/retardant clothing and antistatic boots.

## Section 9 Physical and Chemical Properties

Appearance: colourless transparent liquid

Odor: No information available

Odor Threshold: No information available

pH: No information available

Melting Point/Freezing Point (°C): -35 (101.325kPa) Initial Boiling Point and Boiling Range (°C): 155

Flash Point (°C)( Closed Cup): 49 Evaporation Rate: No information available

Flammability: Not applicable Upper/lower explosive limits[%(v/v)]: Upper limit: 8.0;

Lower limit: 2.0

Vapor Pressure (KPa): 0.4 Relative Vapour Density(Air=1): 4.91

Relative Density(Water=1): 0,89 g/cm³ (20 °C) Solubility: Insoluble in water

Page 7 of 12

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Date: Jul.12,2022

n-Octanol/Water Partition Coefficient: 2.66

Decomposition Temperature (°C): No information

available

Particle characteristics: Not applicable

Auto-Ignition Temperature(°C): 294

Kinematic Viscosity (mm<sup>2</sup>/s): No information available

	Section 10 Stability and Reactivity					
Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.					
Chemical Stability	Stable under proper operation and storage conditions.					
Possibility of Hazardous Reactions	No information available					
Conditions to Avoid	Incompatible materials, heat, flame and spark.					
Incompatible Materials	No information available					
Hazardous	Under normal conditions of storage and use, hazardous decomposition products					
Decomposition products	should not be produced.					

## Section 11 Toxicological Information

#### > Acute Toxicity

Component	CAS No.	LD <sub>50</sub> (Oral)	LD <sub>50</sub> (Dermal)	LC <sub>50</sub> (Inhalation, 4h)
Isobutyl methacrylate	97-86-9	11990mg/kg(Mouse)	No information available	No information available

### > Skin Corrosion/Irritation

Causes skin irritation(Category 2)(Isobutyl methacrylate)

#### > Serious Eye Damage/Irritation

Causes serious eye irritation(Category 2A)(Isobutyl methacrylate)

### > Skin Sensitization

May cause an allergic skin reaction(Category 1)(Isobutyl methacrylate)

### > Respiratory Sensitization

No information available

## > Germ Cell Mutagenicity

Page 8 of 12





# SAFETY DATA SHEET

No.: 220100320417486E

Warranty of Design: GHS (Ninth Revised

Edition)

SDS

Date: Jul.12,2022

No information available

## > Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	97-86-9	Isobutyl methacrylate	Not Listed	Not Listed
2	7732-18-5	Water	Not Listed	Not Listed

### > Reproductive Toxicity

No information available

## > Reproductive Toxicity (Additional)

No information available

#### > STOT-Single Exposure

May cause respiratory irritation(Category 3)(Isobutyl methacrylate)

#### > STOT-Repeated Exposure

No information available

#### > Aspiration Hazard

No information available

## Section 12 Ecological Information

#### > Acute Aquatic Toxicity

No information available

### > Chronic Aquatic Toxicity

No information available

#### > Others

Persistence and Degradability **Bioaccumulative** 

No information available

No information available **Potential** 

Mobility in Soil No information available

Isobutyl methacrylate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Results of PBT and vPvB Assessment Water does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Page 9 of 12

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## Section 13 Disposal Considerations

Waste Chemicals Contaminated Packaging Disposal Recommendations Before disposal should refer to the relevant national and local laws and regulation. Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Refer to Waste chemicals and Contaminated packaging.

## Section 14 Transport Information

ISOBUTYL METHACRYLATE, STABILIZED

Transporting Label



Marine pollutant

No

**UN Number** 

2283

**UN Proper Shipping** 

Name

anant Hanand Class

Transport Hazard Class

**Transport Subsidiary** 

Hazard Class

NONE

**Packing Group** 

Ш

3

Report remarks

According to United Nations Recommendations on the Transport of Dangerous Goods•Model Regulations, Dangerous Goods shall meet requirements of Special

provisions 386.

## Section 15 Regulatory Information

## > International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Isobutyl methacrylate	- √	<b>√</b>	<b>√</b>	<b>V</b>	1	V	V	V	V
Water	1	<b>√</b>	V	V	1	<b>√</b>	V	V	V

[EINECS] European Inventory of Existing Commercial Chemical Substances.

[TSCA] United States Toxic Substances Control Act Inventory.

[DSL] Canadian Domestic Substances List.

[IECSC] China Inventory of Existing Chemical Substances.

[NZIoC] New Zealand Inventory of Chemicals.

[PICCS] Philippines Inventory of Chemicals and Chemical Substances.

[KECI] Existing and Evaluated Chemical Substances.

Page 10 of 12

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[AICS] Australia Inventory of Chemical Substances.

[ENCS] Existing And New Chemical Substances.

#### Note

" $\sqrt{\phantom{a}}$ " Indicates that the substance included in the regulations

"x" That no data or included in the regulations

## Section 16 Additional Information

Creation Date Jul.12,2022
Revision Date Jul.12,2022

Reason for Revision

#### > Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 9th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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# Terms of the Using of the Report

- The report is issued by CCIC according to the information of the chemicals and the information of its shipping provided by the applicant (shipper or his agent).
- According to the demand of this SDS, CCIC requires the applicant to provide true and exact sample and data.
- 3. Information from applicant is the key of this SDS, so CCIC will not respond for the wrong of applicant.
- 4. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
- 5. This report will be effective only after it is signed by the inspector, approver and stamped by CCIC.
- 6. CCIC guarantees the objectivity and fairness of this report, and carries out confidentiality obligations on business secrets such as business information, technical documents and so on.
- 7. The partly duplicating of this report is prohibited without the written approver of CCIC
- 8. The report is invalid when anything of the following happens-illegal transfer, embezzlement, imposture, modification or tampering in any media form.

Page 12 of 12

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