



杭州海关技术中心
国家危险化学品检测重点实验室（浙江）



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正本/ORIGIN

编号: TCH23029343

No: TCH23029343

日期: 2024-01-18

Date: 2024-01-18

ZAIQ-RF(HH)-01-19

Safety Data Sheet

扫描查看在线报告



Applicant name: ZHEJIANG JIANYE CHEMICAL CO., LTD

Product Name: ISOBUTYL ACETATE

Edit date: 2024-01-18

Edit institution: Technology Center of Hangzhou Customs District

Approver:

万旺军

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声 明

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The result in this test report is only valid for the tested samples.

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This report shall be used in integrity. This organization will not be responsible for any misleading caused by the content of this report.

1. Identification of substance

Product Name	ISOBUTYL ACETATE
Other Name	Isobutyl acetate
Chemical Name	ISOBUTYL ACETATE
Recommended Use	Used as a solvent and as a spice etc.
Manufacturer	ZHEJIANG JIANYE CHEMICAL CO.,LTD
Registered Address	NO.8, YANDONGGUAN ROAD, MEICHENG TOWN, JIANDE, HANGZHOU CITY, ZHEJIANG PROVINCE, P.R.CHINA (311604)
Manufacturing address	NO.1 JIANGSHAN ROAD, HI-TECH INDUSTRIAL PARK, JIANDE, HANGZHOU CITY, ZHEJIANG PROVINCE, P.R.CHINA (311604)
Phone Number	+86-571-64149273
Fax Number	+86-571-64141300
WEB or E-mail	trade@chinaorganicchem.com
Emergency Phone Number	+86-571-64144119 or call your nearest poison control centre

2. Hazards identification

GHS classification	Flammable liquids 2
GHS Pictograms	
Signal words	Danger
Hazard statements	H225:Highly flammable liquid and vapour
Precautionary Statement 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. P280:Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
Precautionary Statement Response	P303+P361+P353:IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water[or shower]. P370+P378:In case of fire, use appropriate media to extinguish.
Precautionary Statement Storage	P403+P235:Store in a well-ventilated place. Keep cool.
Precautionary Statement Disposal	P501:Dispose of contents/container in according with local regulation.

Other hazards which do not result in classification Not available.

3. Composition/information on ingredients

✓ **Substances**

□ **Mixtures**

Component Information

Component	CAS number	EINECS number	Mass(%wt)
ISOBUTYL ACETATE	110-19-0	203-745-1	≥99.5

Note:1. Unless a component presents a severe hazard, it does not need to be considered in the SDS if the concentration is less than 1%.

4. First-aid measures

NOTE TO PHYSICIAN	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.
After inhalation	Move to fresh air. Half-upright position. Oxygen or artificial respiration if needed. Get immediate medical attention.
After skin contact	Rinse skin with plenty of water or shower for at least 15 minutes. Remove and isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
After eye contact	Rinse with plenty of water for several minutes (remove contact lenses if easily possible). Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention immediately.
After ingestion	Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Loosen tight clothing such as a collar, tie, belt or waistband. Do not use mouth-to-mouth method if victim ingested the substance. Seek immediate medical attention.
Most important symptoms/effects, acute and delayed	Steam is irritating to the eyes and upper respiratory tract. High concentration inhalation has an anesthetic effect, causing headaches, dizziness, nausea, vomiting, etc. Excessive oral administration can cause headaches, nausea, vomiting, and even coma. Long term skin contact can be irritating.

5. Fire-fighting measures

Suitable extinguishing agents	Foam, CO ₂ , dry chemical powder, water spray.
Special hazards caused by the material, its products of combustion or flue gases	Reacts with strong oxidants, strong acids and strong bases. This generates fire and explosion hazard. The decomposition products depend on temperature, air supply and other substances. Decomposition products may include but are not limited to: carbon monoxide and carbon dioxide.
Protective equipment for	Wear self-contained breathing apparatus, wearing a gas mask,

fire-fighters	a chemical safety goggles, wear tape gas-protection clothing, antistatic work clothes, rubber gloves.
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6. Accidental release measures

Person-related safety precautions	Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Ventilate closed spaces before entering. Keep unnecessary personnel away.
Measures for environmental protection	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting	Contain spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in suitable container. Clean contaminated surface thoroughly.
Additional information	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

7. Handling and storage

Handling	
Information for safe handling	Avoid contact with skin, eyes, mucous membranes and clothing. Avoid inhalation of vapour or mist. Ensure workshop has good ventilation/exhaust device. In case of insufficient ventilation, wear suitable respiratory equipment if ingested.
Information about protection against explosions and fires	Keep away from heat, sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
STORAGE	
Requirements to be met by storerooms and containers	Keep in a cool, dry, well-ventilated place. Keep tightly closed until used.
Information about storage in one common storage facility	Store away from incompatible substances such as strong oxidants, strong acids and strong bases. Protect from heat and dampness.
Further information about storage conditions	No data

8. Exposure controls/personal protection

Limit Values for Exposure					
Component	CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL	NIOSH REL-TWA	NIOSH REL-STEL
ISOBUTYL ACETATE	110-19-0	50 ppm	150 ppm	150 ppm	N.E.

Appropriate engineering controls	Use adequate ventilation to keep airborne concentrations low.
General protective and hygienic measures	Keep away from foodstuffs, beverages and food. Do not get this material in contact with skin. Do not get this material on clothing. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. After work, shower change clothes. Prior to employment and periodic physical examination.
Personal protective equipment	Splash goggles, gloves, apron and a vapor respirator
Breathing equipment	May contact the steam, wearing a tube type gas mask. Emergency rescue or evacuation, oxygen breathing apparatus, air breathing apparatus should be worn.
Protection of hands	Wear appropriate chemical resistant gloves.
Eye/Face protection	Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.
Body protection	Full set of anti chemical reagent overalls, flame retardant antistatic protective clothing, choose body protection according to the amount and concentration of the dangerous substance at the work place.

Note: 1. N.E. means not established.

9. Physical and chemical properties

Physical state	Transparent liquid
Colour	Colourless
Odour	Fruity odour
Melting point/freezing point	-98.9°C
Boiling point or initial boiling point and boiling range	114-118°C
Flammability	Highly flammable
Lower and upper explosion limit/flammability limit	1.3-10.5 %(V/V)
Flash point	18 °C (Closed cup)
Auto-ignition temperature	421 °C
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	Slightly soluble in water, soluble in ethanol, ether, soluble in acetone

Partition coefficient: n-octanol/water(log value)	1.78
Vapour pressure	1.73 kPa (20°C)
Density and/or relative density (water=1)	0.87
Relative density of the vapour/air-mixture (air=1)	4.0
Particle characteristics	Not applicable

10. Stability and reactivity

Reactivity	No data available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reacts with strong oxidants, strong acids and strong bases. This generates fire and explosion hazard.
Conditions to avoid (e.g. static discharge, shock or vibration)	Heat and flame and spark. The extreme temperatures and direct sunlight. Static discharge.
Incompatible materials	Avoid contact with strong oxidizing agents, strong acids and strong bases.
Hazardous decomposition products	The decomposition products depend on temperature, air supply and other substances. Decomposition products may include but are not limited to: carbon monoxide and carbon dioxide.

11. Toxicological information

Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.	
Acute Toxicity	
ISOBUTYL ACETATE: (CAS 110-19-0)	LD50 (Oral, rat): 13400 mg/kg LC50 (Inhalation, rat): 23.4 mg/l (4 h) LD50 (Dermal, rabbit): >17400 mg/kg
Skin corrosion/Irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Chronic Effects	Not classified
Further Information	No data

12. Ecological information

Ecotoxicity	
Aquatic Toxicity	ISOBUTYL ACETATE (CAS 110-19-0)
	Test & Species
	96 Hr LC50 fish: 17 mg/l
	48 Hr EC50 Daphnia: 25 mg/l
	72 Hr EC50 Algae: 370 mg/l
Persistence and degradability	Rapidly biodegradable
Bioaccumulative potential	Not available
Mobility in soil	Not available
Additional Information	Not available

13. Disposal considerations

WASTE DISPOSAL INSTRUCTIONS

Contact a qualified professional waste disposal service to dispose of this material.
 Dispose of in accordance with local environmental regulations or local authority requirements.

14. Transport information

The Recommendation of Transport of Dangerous Goods(TDG)

UN Number	UN 1213
Proper Shipping Name	ISOBUTYL ACETATE
Class/Division	Class 3 Flammable Liquids
Package Group	PG II
Subsidiary risk	None
labelling pictogram	



Maritime transport IMDG	Being same with TDG
	Marine pollutant (Yes/No): No
Air transport ICAO-TI and IATA-DGR	Being same with TDG

15. Regulatory information

European/International Regulations

OSHA:	Hazardous by definition of Hazard Communication Standard(29CFR 1910.1200).
EINECS Status:	ISOBUTYL ACETATE (CAS 110-19-0) is included in EINECS inventory.
EPA TSCA Status:	ISOBUTYL ACETATE (CAS 110-19-0) is included in TSCA public inventory.

Canadian DSL(Domestic Substances List):	ISOBUTYL ACETATE (CAS 110-19-0) is included in DSL.
HMIS(Hazardous Material Identification System Ratings):	Health: 0 Flammability: 3 Physical hazard: 0 Personal protection: D (4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard)
WHMIS(Canadian Workplace Hazardous Material Identification System Ratings):	B2
GB 12268-2012 List of dangerous goods	This chemical is a dangerous goods on the GB 12268-2012 list of dangerous goods.

16. other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

This Material Safety Data Sheet was based on the "Globally Harmonized System of Classification and Labelling of Chemicals", "Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations", "INTERNATIONAL MARITIME DANGEROUS GOODS CODE", "International Air Transport Association Dangerous Goods Regulations", the National Standards and other related dangerous chemicals management laws, regulations and standards, which are periodically updated and changed. To make dangerous goods / hazardous chemicals comply with the relevant requirements of the latest management, regularly update is recommended.

This Material Safety Data Sheet has been compiled in both English and Chinese. For any discrepancies, the Chinese version shall prevail.

Abbreviations and acronyms	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulations Concerning the International Transport of Dangerous Goods by Rail IMDG: International Maritime Code for Dangerous Goods IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service
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	LC50: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent
	EC50: Effective concentration, 50 percent
Edit Date	18.01.2024
Update and Revise	Fourth edition
Edit Standard	<i>Globally Harmonized System of Classification and Labelling of Chemicals</i> Part 1.5
Revised Institution	Technology Center of Hangzhou Customs District