

SAFETY DATA SHEET

Product Name: Isobutyl Acetate

Edit data: 01th Jan., 2020

Edit institution: Ningbo Yongshun Fine Chemical Co.,LTD.

Editor: Ningbo Yongshun Fine Chemical Co.,LTD



Ningbo Yongshun Fine Chemical Co., Ltd.

1. Identification

Product Name	Isobutyl acetate
Chemical Name	Isobutyl acetate
Product use	Solvent
Supplier Name:	NINGBO YONGSHUN FINE CHEMICAL CO.,LTD.
Address	NO.879 NANPU ROAD, XIEPU TOWN, ZHENHAI DISTRICT, NINGBO CITY, ZHEJIANG PROVINCE, CHINA/315204
Phone number	+86-574-55838650
Fax Number	+86-574-86501227
WEB	http://www.chinaorganicchem.com
Emergency Phone Number	+86-574-86501227

2. Hazards Identification

GHS Label



Signal words	Danger
Hazard statements	H225 Highly flammable liquid and vapour
Precautionary Statement	P210 Keep away from heat/sparks/open flames/hot surfaces. --No smoking P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off. Immediately all contaminated clothing. Rinse skin with water/shower. P370+P378 In case of fire: Use foam, dry chemical, carbon dioxide(CO ₂), water spray for extinction. P403+P235 Store in a well-ventilated place, keep cool. P501 Dispose of contents/container in according with local regulation.

3. Composition/Information on Ingredients

Component	CAS number	EINECS number	Mass(%)
Isobutyl acetate	110-19-0	203-745-1	99.2%

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. Oxygen or artificial respiration if needed. Get immediate medical attention.

After skin contact Immediately flush skin with plenty of water. 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 use.

After eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of 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.

5. Fire-fighting measures

Suitable extinguishing agents Foam, dry chemical, carbon dioxide(CO₂), water spray.

Special hazards caused by the material, its products of combustion or flue gases Can be released in case of fire: Carbon monoxide (CO), carbon dioxide(CO₂).

Protective equipment Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

6. Accidental release measures

Person-related safety precautions Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.

Measures for environmental protection material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting Pick up and arrange disposal 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. In case of insufficient ventilation, wear suitable respiratory equipment if ingested.

Information about protection against explosion and fires Keep away from heat, sources of ignition, sparks

or open flame.

STORAGE

Requirements to be met by storerooms and containers tightly closed until used.

Keep in a cool, dry, well-ventilated place. Keep

Information about storage in one common storage facility strong acids and strong bases, strong oxidizing agents.

Store away from incompatible substances such as

Further information about storage conditions No data

8. Exposure controls/ personal protection

Limited Values for Exposure	CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL	ACGIH TLV-TWA	NIOSH PEL-STEL
-----------------------------	------------	---------------	----------------	---------------	----------------

COMPONENTS

Isobutyl acetate	110-19-0	150ppm	N.E.	150ppm	N.E.
------------------	----------	--------	------	--------	------

General protective and hygienic measures Do not use this material in contact with skin. Do not get this material on clothing. Avoid contact with eyes. Handle in according with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Breathing equipment When workers are facing high concentrations they must use appropriate certified respirators.

Protection of hands Wear appropriate chemical resistant gloves.

Eye/Face protection Use safety glasses with side shields or safety goggles as

Body protection Use clean protective body-covering as needed to minimize contact with clothing and skin.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance(physical state, color etc)	Colorless and clear liquid
Odour	fruity odour
PH	Not applicable
Melting point	<-90°C
Boiling point	117°C(1013hpa)
Flash point	22°C(1013hpa)-closed cup
Evaporation rate	Not applicable
Flammability	Flammable
Upper/lower flammability or explosive limits	Not applicable
Vapor pressure	21hpa(20°C)
Vapor density (air=1)	>4(vs air)
Relative density	871kg/m ³ (20°C)
Solubility(water)	5.6g/L(20°C)
Partition coefficient n-octanol/water	Not applicable
Auto-ignition	430°C(1019hpa)
Temperature	
Decomposition	Not applicable
Temperature	

Surface tension	62.5mN/m(20°C)
Viscosity	0.8mm ² /s(20°C)

10. Stability and reactivity

Chemical stability	This is a stable chemical under recommended storage conditions.
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Condition to avoid(e.g. static discharge, shock or vibration)	In compatible materials. Avoid contact with heat, sparks, open flame, and static discharge. Avoid any sources of ignition.
Incompatible materials	Avoid contact with strong acids and strong bases, strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide(CO),carbon dioxide(CO ₂).

11. Toxicological information

Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.

Acute Toxicity	
Isobutyl acetate:	LD50(Oral, rat):13413 mg/kg bw
(CAS 110-19-0)	LD50(Dermal, rabbit): >17400mg/kg bw
Skin corrosion/Irritation	Not classified
Serious eye	Not classified
Damage/irritation	
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	Not classified

12. Ecological Information

Ecotoxicity	
Aquatic Toxicity	Isobutyl acetate(CAS110-19-0)
	Test &Species
	96Hr LC50 fish: N/A
	48Hr EC50 Daphnia:N/A
	72 HrEC50 algae:N/A
Additional Information	Not available

13. Disposal considerations

WASTE DISPOSAL INSTRUCTIONS

Contact a licensed professional waste disposal service to dispose of this material.

Dispose of in accordance with local environmental regulations or local authority requirements.

14. Disposal considerations

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
Marine Pollutant	No
Maritime transport IMDG	Being same with TDG
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(29CFR1910.1200)

EINECS Status: This chemical is included in EINECE inventory.

EPA TSCA Status: This chemical is included in TSCA inventory.

CANADIAN This chemical is included in DSL

DSL(DOMESTIC SUBSTANCE LIST):

HMIS(HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS): Health:0

Flammability:3 physical hazard:0 personal hazard :H(4.Severe Hazard;3.Serious Hazard; 2. Moderate hazard;1. Slight hazard;0. Minimal hazard)

WHMIS(CANADIAN WORKPLACE HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATING): GB

12268-2005 LIST OF DANGEROUS GOODS: This chemical is a dangerous goods on the GB12268-2005 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 judgement 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.

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 Codes for Dangerous Goods.

Transport Association”(IATA)

IATA-DGR: Dangerous Goods Regulations by the “International Air

Organization”(ICAO)

ICAO-TT: Technical instructions by the :International Civil Aviation

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration,50percent

LC50: Lethal dose,50 percent

Edit Date

01/01/2020

UPDATE AND RECEIVE

Original edition

EDIT STANDARD

Globally Harmonized System of Classification and Labeling for Chemical part1.5

REVISED INSTITUTION

NINGBO YONGSHUN FINE CHEMICAL CO.,LTD.