



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 07-Apr-2023

Revision Number 4.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Isopropyl Acetate
Product Code	165-04806
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan
Supplier	Phone: +81-6-6203-3741 Fax: +81-6-6203-5964 FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029
Emergency telephone number Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture

Flammable liquids
Acute toxicity - Inhalation (Vapors)
Serious eye damage/eye irritation
Specific target organ toxicity (single exposure)

Category 3 Respiratory irritation, Narcotic effects

Category 2 Category 4

Category 2A Category 3







Signal word

Danger

Hazard statements

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- · Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting / equipment

- · Use only non-sparking tools
- Take precautionary measures against static discharge
- Wear protective gloves/protective clothing/eye protection/face protection
- · Keep cool

Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep container tightly closed
- Store locked up

Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula CH3COOCH(CH3)2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Isopropyl acetate	99.0	102.13	(2)-731,(2)-727	*	108-21-4

Note on ISHL No.: * in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Vapors may form explosive mixtures with air

Special extinguishing method

No information available

Special protective actions for

fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

Safety handling precautions

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

Safe storage conditions

Storage conditions Keep container protect from light, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed.

Safe packaging material

Glass

Incompatible substances

Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Isopropyl acetate 108-21-4	TWA: 100 ppm OEL ISHL/ACL: 100 ppm	ISHL/ACL: 100 ppm	STEL: 150 ppm TWA: 100 ppm

Personal protective equipment

Respiratory protection gas mask for organic gas (JIS T8152)
Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

ColorcolorlessTurbidityclearAppearanceliquid

Odor no data available

Melting point/freezing point -73 °C Boiling point, initial boiling point and boiling range 89 °C

Flammability Highly flammable liquid and vapor

Evaporation rate:no data available
Flammability (solid, gas):
no data available

Upper/lower flammability or

explosive limits

Upper:no data availableLower:no data available

Flash point 4 °C

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data available

Dynamic viscosity no data available

Solubilities Ethanol , acetone : freely soluble . water : practically

insoluble,or insoluble . no data available

n-Octanol/water partition coefficient:(log Pow)

Vapour pressureno data availableSpecific Gravity / Relative density0.870 −0.876 g/m L (20 °C)

Vapour density

Particle characteristics

no data available
no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available
Chemical stability May be altered by light.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl acetate	3000 mg/kg (Rat)	> 17436 mg/kg (Rabbit)	17132 ppm (Rat) 4 h

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
information		information	source information
Isopropyl acetate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
,	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Isopropyl acetate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	Classification results.	classification results.	classification results.

Skin irritation/corrosion

Skin corrosion/irritation source information
Based on the NITE GHS classification results.
Serious eye damage/irritation source information
Based on the NITE GHS classification results.
Respiratory or Skin sensitization source information
Based on the NITE GHS classification results.
germ cell mutagencity source information
Based on the NITE GHS classification results.
Carcinogenicity source information
Based on the NITE GHS classification results.

Reproductive toxicity				
Chemical Name	Reproductive toxicity source information			
Isopropyl acetate	Based on the NITE GHS classification results.			
STOT-single exposure				
Chemical Name	STOT -single exposure- source information			
Isopropyl acetate	Based on the NITE GHS classification results.			
STOT-repeated exposure				
Chemical Name	STOT -repeated exposure- source information			
Isopropyl acetate	Based on the NITE GHS classification results.			
Aspiration hazard				
Chemical Name	Aspiration Hazard source information			
Isopropyl acetate	Based on the NITE GHS classification results.			

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Isopropyl acetate	N/A	LC50 : Pimephales Promelas	LC50 : Artemia franciscana
		390.25 mg/L 96 h	110 mg/L 48 h

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source	Long-term (chronic) hazardous to the aquatic environment source	
	information	information	
Isopropyl acetate	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID

UN number UN1220

Proper shipping name: Isopropyl acetate

UN classfication

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG

UN number UN1220

Proper shipping name: Isopropyl acetate

UN classfication

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN1220

Proper shipping name: Isopropyl acetate

UN classfication 3

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS Listed
TSCA Listed

Japanese regulations

Fire Service Act Category IV, Class I petroleums, dangerous grade 2

Poisonous and Deleterious Not applicable

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57,

Para.1, Enforcement Order Art.18)

Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table

No.9)No.182

Class 2 Organic Solvents (Enforcement Order Attached Table No.6-2, Ordinance on

Prevention of Organic Solvent Poisoning Art.1, Para.1, Item 5)

Working Environment Evaluation Standards, Administrative Control Levels (Law

Art.65-2, Para.1)

Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Item 4)

Regulations for the carriage and storage of dangerous

goods in ship

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Transport by Ship and Storage, Attached Table 1)

Civil Aeronautics Law Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of

Explosives etc., Attached Table 1)

Marine Pollution Prevention Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z

Law

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Export Trade Control Order Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (2023.4.1-)
Isopropyl acetate 108-21-4 (99.0)	-	Applicable	-

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances
Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

Record of SDS revisionsThe following contents were revised. Prodauct and company Identification. Fire fighting

measures. Exposure controls/personal protection. Physical and chemical properties.

Toxicological information. Ecological information. Regulatory information.

Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet