



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 13-Feb-2023

Revision Number 2.04

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	3-Methylbutyl Acetate
Product Code	139-12155

Manufacturer FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741

Fax: +81-6-6203-5964 **Supplier** FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

Category 1

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Emergency telephone number Recommended uses and

Recommended uses and restrictions on use

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# **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

Classification of the substance or mixture

Flammable liquidsCategory 3Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2ASpecific target organ toxicity (single exposure)Category 3

Category 3 Respiratory irritation, Narcotic effects
Specific target organ toxicity (repeated exposure)

Category 1 optic nerve









Signal word

Danger

#### **Hazard statements**

May cause respiratory irritation

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H372 - Causes damage to the following organs through prolonged or repeated exposure: optic nerve

## **Precautionary statements-(Prevention)**

- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- · Do not eat, drink or smoke when using this product
- · 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)

- Get medical advice/attention if you feel unwell
- 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 skin irritation occurs: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- · Wash contaminated clothing before reuse
- 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 CH3COO(CH2)2CH(CH3)2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
3-Methylbutyl acetate	98.0	130.18	(2)-733	2-(6)-201	123-92-2

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
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3-Methylbutyl acetate 123-92-2	Ceiling: 100 ppm Ceiling: 532.5 mg/m³ TWA: 50 ppm OEL TWA: 266.3 mg/m³ OEL	ISHL/ACL: 50 ppm	STEL: 100 ppm TWA: 50 ppm
	ISHL/ACL: 50 ppm		

Personal protective equipment

Respiratory protection gas mask for organic gas
Hand protection lmpermeable protective gloves

**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** characteristic odor

Melting point/freezing point -79 °C Boiling point, initial boiling point and boiling range 140 °C

Flammability Flammable liquid and vapor

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

Upper/lower flammability or

explosive limits

Decomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data available

Dynamic viscosity

no data available

Solubilities

no data available

Ethanol , Diethyl ether : Very soluble. water : sparingly soluble .

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

2.13

Vapour pressure 0.53kPa

Specific Gravity / Relative density  $0.866 - 0.874 \text{ g/m L } (20 \,^{\circ}\text{C})$ 

Vapour density 4.5(air=1)
Particle characteristics 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

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
3-Methylbutyl acetate	16600 mg/kg ( Rat )	N/A	N/A

Chemical Name	,	•	Acute toxicity -inhalation gas-
	information	information	source information
o monitarity accounts			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
3-Methylbutyl 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

Chemical Name	Skin corrosion/irritation source information
3-Methylbutyl acetate	Based on the NITE GHS classification results.
Sorious ava damago/ irritation	

 ourous of summager minutes.		
Chemical Name	Serious eye damage/irritation source information	
3-Methylbutyl acetate	Based on the NITE GHS classification results.	

## Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
3-Methylbutyl acetate	Based on the NITE GHS classification results.
Demonstructure cell monte accidity	

## Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
3-Methylbutyl acetate	Based on the NITE GHS classification results.
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## Carcinogenicity

Chemical Name	Carcinogenicity source information	
3-Methylbutyl acetate	Based on the NITE GHS classification results.	

#### Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
3-Methylbutyl acetate	Based on the NITE GHS classification results.	

# STOT-single exposure

Chemical Name	STOT -single exposure- source information	
3-Methylbutyl acetate	Based on the NITE GHS classification results.	

## **STOT-repeated exposure**

Chemical Name		STOT -repeated exposure- source information
3-Methylbutyl acetate		Based on the NITE GHS classification results.
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#### **Aspiration hazard**

Addition nazara		
Chemical Name	Aspiration Hazard source information	
3-Methylbutyl acetate	Based on the NITE GHS classification results.	

# **Section 12: ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
3-Methylbutyl acetate	N/A	N/A	EC50 : Daphnia magna
			205 mg/L 24 h

## Other data

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

Persistence and degradability Bioaccumulative potential

No information available No information available

Mobility in soil No information available Hazard to the ozone layer 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 UN1104 Proper shipping name: Amyl acetates

**UN classfication** 

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** 

UN1104 **UN** number Proper shipping name: Amyl acetates

**UN classfication** 

Subsidiary hazard class

Packing group Ш

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

UN1104 **UN** number Proper shipping name: Amyl acetates

**UN classfication** 

Subsidiary hazard class

Packing group Ш

**Environmentally Hazardous** Not applicable

Substance

# **Section 15: REGULATORY INFORMATION**

**International Inventories** 

Listed **EINECS/ELINCS TSCA** Listed

Japanese regulations

Fire Service Act Category IV, Class II petroleums, dangerous grade 3 Not applicable

Poisonous and Deleterious

**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.184

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

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

Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Item 4)

Working Environment Evaluation Standards, Administrative Control Levels (Law

Art.65-2, Para.1)

Regulations for the carriage and storage of dangerous

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

Transport by Ship and Storage, Attached Table 1)

goods in ship

**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 Y

Pollutant Release and Transfer Not applicable

**Register Law** 

(~2023.3.31)

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 (~2023.3.31)
3-Methylbutyl acetate 123-92-2 ( 98.0 )	-	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.

#### **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**