



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 17-Aug-2023 Revision Number 3.06

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	0.5% EosinY, Ethanol Solution		
Product Code	051-06495		
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741		
Emergency telephone number Recommended uses Restrictions on use	Fax: +81-6-6203-2029 +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** Serious eye damage/eye irritation Carcinogenicity **Reproductive Toxicity** Specific target organ toxicity (single exposure) Category 3 Respiratory irritation, Narcotic effects Specific target organ toxicity (repeated exposure) Category 1 liver

Category 2 Category 2B Category 1A Category 1A Category 3

Category 1



Signal word

Hazard statements

- H225 Highly flammable liquid and vapor
- H320 Causes eye irritation
- H350 May cause cancer
- H360 May damage fertility or the unborn child
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H372 Causes damage to the following organs through prolonged or repeated exposure: liver

Precautionary statements-(Prevention)

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- · Wash face, hands and any exposed skin thoroughly after handling
- · Do not breathe dust/fume/gas/mist/vapors/spray
- · 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

Keep cool

Precautionary statements-(Response)

• IF exposed or concerned: Get medical advice/attention

• 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
- · In case of fire: Use suitable extinguishing media for extinction

Precautionary statements-(Storage)

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

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Ethanol	93.83	46.07	(2)-202	*	64-17-5
Water	5.56	18.02	N/A	N/A	7732-18-5
Eosin Y	0.62	691.85	(5)-1511	公表	548-26-5

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

Water spray (fog), 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	closed. 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 Na	me JSOH (J	apan) ISHL (Japa	in) ACGIH
Ethanol	N/A	N/A	STEL: 1000 ppm
64-17-5			

 Personal protective equipment Respiratory protection
 gas mask f

 Hand protection
 chemical p

 Eye protection
 protective e

 Skin and body
 protection

 General hygiene considerations
 Handle in accordance with good industrial by

gas mask for organic gas (JIS T 8152) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: **Decomposition temperature:** pН Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density **Particle characteristics**

yellow - yellowish red liquid characteristic odor -117 °C 78.3 °C Highly flammable liquid and vapor no data available no data available

19 vol% 1.3 vol% 12.8 °C no data available Ethanol , water , acetone : soluble . 0.32 59.3 mmHg (25 °C) 0.793 1.59 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), Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol	6200 mg/kg (Rat)	20000 mg/kg (Rabbit)	63000 ppmV (Rat) 4 h
Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Ethanol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS

	classification re	sults.	classific	ation results.	cla	assification	results.
Chemical Name		ity -inhalation ce information		oxicity -inhalatic ource informatic			ty -inhalation mist information
Ethanol	Based on the N			n the NITE GHS		ased on the	
	classification re	sults.	classific	ation results.	cla	assification	results.
Skin irritation/corrosion							
Chemic	al Name			Skin corrosic	on/irritation	n source in	formation
Eth	anol		Based	on the NITE GH	S classifica	ation results	
Serious eye damage/ irritation							
Chemic	al Name			Serious eye dan	nage/irrita	tion source	e information
Eth	anol		Based	on the NITE GH	S classifica	ation results	
Respiratory or skin sensitization	n						
Chemic	al Name		Respiratory or Skin sensitization source information				
Ethanol			Based	on the NITE GH	S classifica	ation results	
Reproductive cell mutagenicity							
Chemical Name				germ cell mutagencity source information			
Ethanol			Based	Based on the NITE GHS classification results.			
Carcinogenicity							
	al Name					urce inform	
Eth	anol		Based	on the NITE GH	S classifica	ation results	
Chemical Name		NTP		IARC	ACG		ISOH (Japan)
Ethanol		Known		Group 1	A	3	-
64-17-5							
Reproductive toxicity							
	al Name			Reproductive toxicity source information			
	anol		Based	Based on the NITE GHS classification results.			
STOT-single exposure							
	al Name		STOT -single exposure- source information				
Ethanol			Based on the NITE GHS classification results.				
STOT-repeated exposure							
	al Name		STOT -repeated exposure- source information Based on the NITE GHS classification results.				
	anol		Based	on the NITE GH	5 classifica	ation results	•
Aspiration hazard				A 1			
	al Name		Aspiration Hazard source information Based on the NITE GHS classification results.				
L Eth	anol		Based	on the NITE GH	5 classifica	ation results	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ethanol	EC50 : Chlorella alga	LC50 : Oncorhychus mykiss	EC50 : Daphnia magna
	1000 mg/L 96 h	11200 ppm 96 h	5463 mg/L 48 h

Other data

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

Persistence and degradability Bioaccumulative potential	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	UN1170
Proper shipping name:	Ethanol solution
UN classfication	3
Subsidiary hazard class	
Packing group	11
Marine pollutant	Not applicable
IMDG	
UN number	UN1170
Proper shipping name:	Ethanol solution
UN classfication	3
Subsidiary hazard class	0
Packing group	П
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	
Annex II of MARPOL 73/78 and	
the IBC Code	
UN number	UN1170
Proper shipping name:	Ethanol solution
UN classfication	3
	•
•	П
Substance	
Subsidiary hazard class Packing group Environmentally Hazardous Substance	II Not applicable

Section 15: REGULATORY INFORMATION

Japanese regulations Fire Service Act Poisonous and Deleterious Substances Control Law	Category IV, alcohols, dangerous grade 2 water-soluble Not applicable
Industrial Safety and Health Act	tNotifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table No.9)No.61
	Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)
	Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18)
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 Law	
Pollutant Release and Transfer Register Law (2023.4.1-)	Not applicable
Export Trade Control Order	Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Ethanol 64-17-5(93.83)	-	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 revisions The following contents were revised. Physical and chemical properties. **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 Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet