



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 26-Feb-2024

Revision Number 6.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Glycolic Acid	
Product Code	071-01512,075-01515,073-01511	
Supplier	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	+81-6-6203-3741 / +81-3-3270-8571	

Recommended uses For research use only

Restrictions on useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Acute toxicity - Orai	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 1

Category 1 respiratory system

Specific target organ toxicity (repeated exposure)

Category 2

Category 2 liver, thymus

Acute aquatic toxicity Category 3

Pictograms



Hazard statements

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H302 - Harmful if swallowed

H332 - Harmful if inhaled

H361 - Suspected of damaging fertility or the unborn child

H402 - Harmful to aquatic life

H370 - Causes damage to the following organs: respiratory system

H373 - May cause damage to the following organs through prolonged or repeated exposure: liver, thymus

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 eat, drink or smoke when using this product
- · Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Avoid release to the environment

Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician
- 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
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- Do NOT induce vomiting

Precautionary statements-(Storage)

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 HOCH2COOH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Glycolic acid	97.0	76.05	(2)-1346	2-(4)-864	79-14-1

Note on ISHL No.:

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

^{*} in the table means announced chemical substances.

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

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

Sweep up and gather scattered particles, and collect it in an empty airtight container.

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

Avoid contact with 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

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed. Store locked up.

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 This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

ColorWhite - nearly whiteAppearancecrystals or massOdorcharacteristic odorMelting point/freezing point75 - 81 °C

Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):

no data available
no data available
no data available
no data available

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
no data available
rlash point
no data available
pecomposition temperature:
no data available
ph
no data available
viscosity (coefficient of viscosity)
no data available
pynamic viscosity
no data available

Solubilities water, Ethanol: Very soluble.

n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available

Specific Gravity / Relative density 1.27

Vapour densityno data availableParticle characteristicsno data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available

Chemical stability Stable under recommended storage conditions.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Moisture

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
Glycolic acid	1357 mg/kg (Rat)	N/A	2.52 mg/L (Rat) 4h
-			>3.64 mg/L (Rat) 4h

	Chemical Name	_		Acute toxicity -inhalation gas-
ı		information	information	source information
	Glycolic acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS

Aspiration Hazard source information

Based on the NITE GHS classification results.

	classification results.	classification results.	classification results.	
Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	source information	
Glycolic acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS	
	classification results.	classification results	classification results.	
Skin irritation/corrosion				
Chemi	cal Name	Skin corrosion/irritat	ion source information	
Glyce	olic acid	Based on the NITE GHS classif	ication results.	
Serious eye damage/ irritation				
Chemi	cal Name		itation source information	
Glyce	olic acid	Based on the NITE GHS classif	ication results.	
Respiratory or skin sensitization	on			
Chemi	cal Name	Respiratory or Skin sens	Respiratory or Skin sensitization source information	
Glyce	olic acid	Based on the NITE GHS classification results.		
Reproductive cell mutagenicity	<u> </u>			
Chemi	cal Name	germ cell mutagencity source information		
Glyce	olic acid	Based on the NITE GHS classification results.		
Carcinogenicity				
Chemi	cal Name	Carcinogenicity	source information	
Glyce	olic acid	Based on the NITE GHS classif	ication results.	
Reproductive toxicity				
Chemi	cal Name	Reproductive toxici	ty source information	
Glyce	olic acid	Based on the NITE GHS classification results.		
STOT-single exposure				
Chemi	cal Name	STOT -single exposure- source information		
Glyce	olic acid	Based on the NITE GHS classification results.		
STOT-repeated exposure				
	cal Name		sure- source information	
Glyce	olic acid	Based on the NITE GHS classif	ication results.	
Aspiration hazard				

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Glycolic acid	N/A	LC50:Brachydanio rerio	EC50 : Daphnia magna
		5000 mg/L 96 h	44 mg/L 48 h

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Glycolic acid	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

Chemical Name

Glycolic acid

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

UN3261 **UN** number

Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (Glycolic acid)

UN classfication

Subsidiary hazard class

Packing group

Not applicable Marine pollutant

IMDG

UN3261 **UN** number

Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (Glycolic acid)

UN classfication

Subsidiary hazard class

Packing group Ш

Not applicable Marine pollutant (Sea)

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

LIN3261 **UN** number

Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (Glycolic acid)

UN classfication

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable

Poisonous and Deleterious Deleterious Substances 3rd. Grade

Substances Control Law

Industrial Safety and Health Act Not applicable

Industrial Safety and Health Act ([2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

2024~)

Regulations for the carriage

and storage of dangerous

goods in ship

Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Transport by Ship and Storage, Attached Table 1)

Civil Aeronautics Law Corrosive Substances (Ordinance Art.194, MITL Nortification for Air Transportation of

Explosives etc., Attached Table 1)

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)	Pollutant Release and Transfer Register Law (2023.4.1-)
Glycolic acid 79-14-1 (97.0)	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

 $\label{eq:continuous} \mbox{Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.}$

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

Record of SDS revisions Disclaimer

The following contents were revised. Regulatory information.

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