

# Safety Data Sheet

GHS classification and label elements of the product Classification of the substance or mixture (Note) GHS classification without description: Not classified/Classification not possible Label elements No GHS label element No Signal word Composition/information on ingredients Mixture/Substance selection: Substance Common name, synonyms: Aminoacetic acid Ingredient name:Glycine Content (%):98.5~101.5 Chemical formula:C2H5NO2 Chemicals No, Japan:9-77 CAS No:36-40-6 MW:75.07 ECNO:200-272-2 First-aid measures Descriptions of first-aid measures			
Product name: Glycine Product code (SDS NO): 21183jis,E-1 Relevant identified uses of the substance or mixture and uses advised against Uses advised against: This product conform to JSFA(Japan's Specifications and Standards for Food Additives Do not use for other purposes. Details of the supplier of the safety data sheet Manufacturer/Supplier JUNSEI CHEMICAL CO., LTD. Address: 1-6, Ohmano-cho, Koshigaya-shi, Saitama 343-0844, Japan Division: Quality Assurance Department Telephone number: 41-48-986-6161 FAX: +81-48-989-2787 e-mail address: shiyaku-t@junsei.co.jp Hazards identification GHS classification and label elements of the product Classification of the substance or mixture (Note) GHS classification without description: Not classified/Classification not possible Label elements No GHS label element No Signal word Composition/information on ingredients Mixture/Substance selection: Substance Common name, synonyms: Aminoacetic acid Ingredient name:Glycine Content (%)39.57-101.5 Chemical formula:C2H5NO2 Chemicals No, Japan:9-77 CAS No:56-40-6 MW:75.07 ECNO:200-272-2 First-aid measures Descriptions of first-aid measures	I. Identification of the subs	tance/mixture and of the company/undertaking	
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	Descriptions of first-aid i	neasures	
IF INHALED	IF INHALED		
Remove person to fresh air and keep comfortable for breathing.	Remove person to	o fresh air and keep comfortable for breathing.	
Call a POISON CENTER or doctor/physician if you feel unwell.	Call a POISON CE	NTER or doctor/physician if you feel unwell.	
IF ON SKIN (or hair)	IF ON SKIN (or hair)		
Take off immediately all contaminated clothing. Rinse skin with water/shower.			
If skin irritation or rash occurs: Get medical advice/attention.	Take off immediat	ely all contaminated clothing. Rinse skin with water/shower.	

#### IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



# Glycine, JUNSEI CHEMICAL CO., LTD., 27183jis\_E-1, 13/03/2020

If eye irritation persists: Get medical advice/attention.

## IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media		
Use appropriate extinguishing media suitable for surrounding facilities.		
Unsuitable extinguishing media data is not available.		
Specific hazards arising from the substance or mixture		
Containers may explode when heated.		
Fire may produce irritating, corrosive and/or toxic gases.		
Advice for firefighters		
Specific fire-fighting measures		
Evacuate non-essential personnel to safe area.		
Special protective equipment and precautions for fire-fighters		
Wear fire/flame resistant/retardant clothing.		
Wear protective gloves/protective clothing/eye protection/face protection.		
Firefighters should wear self-contained breathing apparatus with full face peace operated		
positive pressure mode.		
6. Accidental release measures		
Personnel precautions, protective equipment and emergency procedures		
Ventilate area until material pick up is complete.		
Wear proper protective equipment.		
Environmental precautions		
Avoid release to headsprings, rivers, lakes, ocean and groundwater.		
Methods and materials for containment and cleaning up		
Sweep up, place in a bag and hold for waste disposal.		
Preventive measures for secondary accident		
Collect spillage.		

### 7. Handling and storage

Precautions for safe handling

# Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume/gas/mist/vapors/spray.

## (Protective measures against fire and explosion)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

#### (Exhaust/ventilator)

Exhaust/ventilator should be available.

## (Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

## Safety Measures

Wear protective gloves, protective clothing or face protection.

Use personal protective equipment as required.

When using do not eat, drink or smoke.

Any incompatibilities

Strong bases, Strong oxidizing agents should not be mixed with the chemicals.



Storage

Conditions for safe storage

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

Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

8. Exposure controls/personal protection Control parameters Control value in MHLW is not available. Adopted value Adopted value in JSOH is not available. Adopted value in ACGIH is not available. OSHA-PEL value is not available. NIOSH-REL value is not available. Exposure controls Appropriate engineering controls Do not use in areas without adequate ventilation. Eye wash station should be available. Washing facilities should be available. Individual protection measures Respiratory protection Wear respiratory protection. Hand protection Wear protective gloves. Consult with your glove and/or personnel equipment manufacturer for selection of appropriate compatible materials. Eye protection Wear eye/face protection. Skin and body protection Wear impervious clothing and boots in case of repeated or prolonged treatment. 9. Physical and Chemical Properties Information on basic physical and chemical properties Physical state: Crystals or crystalline powder Color: White Odor: None Odor threshold data is not available. pH: 5.5~7.0(1.0g, water10ml) Boiling point or initial boiling point data is not available. Boiling range data is not available. Evaporation rate data is not available. Melting point/Freezing point: 290°C Decomposition temperature: 290°C Self-Accelerating Decomposition Temperature/SADT data is not available. Flammability (gases, liquids and solids) data is not available. Flash point data is not available. Auto-ignition temperature data is not available. Critical temperature data is not available. Lower and upper explosion limit/flammability limit data is not available. Vapor pressure data is not available. Vapor density data is not available. VOC data is not available.



# Glycine, JUNSEI CHEMICAL CO., LTD., 27183 jis\_E-1, 13/03/2020

Relative vapor density (Air=1) data is not available. Relative density of the Vapor/air - mixture at 20°C (Air = 1) data is not available. Density and/or relative density: 1.161 g/cm3(20°C) Dynamic viscosity data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: 249g/liter(25°C) Solubility in solvent: Very slightly soluble in ethanol; practically insoluble in diethyl ether. n-Octanol/water partition coefficient: log Pow-3.21

No Particle characteristics data is not available.

10. Stability and Reactivity

Reactivity data is not available. Chemical stability Stable under normal storage/handling conditions. Possibility of hazardous reactions data is not available. Conditions to avoid Contact with incompatible materials. Open flames. Heat. Incompatible materials Strong bases, Strong oxidizing agents Hazardous decomposition products Carbon oxides, Nitrogen oxides

#### 11. Toxicological Information

Information on toxicological effects Acute toxicity data is not available. Irritant properties Skin corrosion/irritation data is not available. Serious eye damage/irritation data is not available. Allergenic and sensitizing effects data is not available. Mutagenic effects data is not available. Carcinogenic effects data is not available. Reproductive toxicity data is not available. STOT STOT-single exposure data is not available. STOT-repeated exposure data is not available. Aspiration hazard data is not available.

12. Ecological Information

Ecotoxicity
Ecotoxicity data is not available.

Water solubility

249g/L(25°C) (PHYSPROP Database)

Persistence and degradability

BOD\_Degradation : 79% (Registered chemicals data check & review, Japan)

Bioaccumulative potential

log Pow= -3.21 (PHYSPROP Database)

Mobility in soil data is not available.
Ozone depleting chemical data is not available.



#### 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

# 14. Transport Information Not applicable to UN No., UN CLASS Environmental hazards MARPOL Annex III – Prevention of pollution by harmful substances Marine pollutants (yes/no) : no

### 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture Environmental hazards

US major regulations

Chemicals listed in TSCA Inventory

Glycine

Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

Regulatory information in this section are limited to intentional ingredient(s), but does not contain information on non-intentional ingredients or impurities which are not informed by supplier(s).

## 16. Other information

### Reference Book

Globally Harmonized System of classification and labelling of chemicals, (6th ed., 2015), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18) IATA Dangerous Goods Regulations (60th Edition) 2019 Classification, labelling and packaging of substances and mixtures (table3–1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2019 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php JIS Z 7253 : 2019 2019 Recommendation on TLVs (JSOH) Supplier's data/information Chemicals safety data management system "GHS Assistant" (https://www.asahi-ghs.com/) NITE Chemical Risk Information Platform(NITE-CHRIP) https://www.nite.go.jp/en/chem/chrip/chrip\_search/systemTop

GHS Classification Guidance for Enterprises 2013 Revised Edition (Aug. 2013, METI)



**General Disclaimer** 

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2018).