

SAFETY DATA SHEET

Creation Date 07-Mar-2012

Revision Date 24-Dec-2021

Revision Number 6

Product Name	Diglycolic acid		
Cat No. :	AC162260000; AC162260025; AC162260050; AC162261000; AC162265000		
CAS No	110-99-6		
Synonyms	2,2`-Oxydiacetic acid		
Recommended Use	Laboratory chemicals.		
Uses advised against	Food, drug, pesticide or biocidal product use.		

<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 4 Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Inhalation 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 Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Eyes 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 Indestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Storage Store in a well-ventilated place. Keep container tightly closed Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %	
Diglycolic acid	110-99-6	>95	

4. First-aid measures		
General Advice	If symptoms persist, call a physician.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if	

	symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and	None reasonably foreseeable.
effects Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>

HealthFlammability21		Instability 0	Physical hazards N/A						
	6. Accidental release measures								
Personal Precautions	Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.								
Environmental Precautions	Should not be released in	to the environment.							
Methods for Containment and Clea Up	Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Jp containers for disposal.								
	7. Handling and storage								
HandlingDo not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Avoid dust formation. Ensure adequate ventilation. Avoid ingestion and inhalation.									
Storage.Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Bases. Strong oxidizing agents. Reducing Agent.									
8. E	xposure controls	/ personal protection	n						
Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.									

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Use only under a chemical fume hood.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

	in the short and short for proper ties
Physical State	Powder Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	141 - 145 °C / 285.8 - 293 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/wa	ter No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 360°C
Viscosity	Not applicable
Molecular Formula	C4 H6 O5
Molecular Weight	134.09
-	

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Bases, Strong oxidizing agents, Reducing Agent
Hazardous Decomposition Products	s Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information						
Component Informatic	on I	LD50 Oral		LD50 Dermal	1 C 50	Inhalation
Diglycolic acid	L	D50 = 500 mg/kg (R)	at)	Not listed		t listed
Toxicologically Synerg Products Delayed and immediat	-	No information ava		and long-term expo	l	
rritation		Causes burns by a	III exposure rout	es		
Sensitization		No information ava	ilable			
Carcinogenicity		The table below in	dicates whether	each agency has list	ted any ingredient	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Diglycolic acid	110-99-6	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects Reproductive Effects		No information ava				
Developmental Effects	6	No information ava	ilable.			
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects,bo delayed	oth acute and	No information available				
Endocrine Disruptor Information		No information ava	ilable			
Other Adverse Effects		The toxicological properties have not been fully investigated.				
		12. Ecolo	ogical info	ormation		
<u>Ecotoxicity</u> Do not empty into drains	S.					
Persistence and Degra	adability	Soluble in water Pe	ersistence is unl	ikely based on inforn	nation available.	
Bioaccumulation/ Acc	umulation	No information ava	ilable.			
Mobility		Will likely be mobil	e in the environr	ment due to its water	solubility.	
	Component	nt log Pow				
	Diglycolic aci				-2.01	
		13. Dispo	sal consid	derations		

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information	
DOT	Not regulated	
DOT TDG IATA	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Diglycolic acid	110-99-6	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Diglycolic acid	110-99-6	-	Х	203-823-5	Х	Х	Х	Х	Х	KE-27726

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
California Proposition 65 U.S. State Right-to-Know Regulations	This product does not contain any Proposition 65 chemicals. Not applicable
U.S. State Right-to-Know	

Not applicable

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

110-99-6

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

Regulatory Affairs

Thermo Fisher Scientific

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)			
Diglycolic acid	110-99-6	Not applicable	Not applicable	Not applicable	Not applicable			
Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention			
		(2012/18/EC) -	(2012/18/EC) -	Convention (PIC)	(Hazardous Waste			
		Qualifying Quantities Qualifying Quantities						
		for Major Accident	for Safety Report					
	1	Notification	Requirements					

16. Other information

Not applicable

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Prepared By

Creation Date Revision Date Print Date Revision Summary

Diglycolic acid

07-Mar-2012 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Not applicable

Not applicable

Disclaimer

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, use, processing, storage, transportation, disposal and release 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

End of SDS