

# SAFETY DATA SHEET

Revision Date 01-Apr-2024

**Revision Number** 3

# 1. Identification Glycolic acid, ca 66-70% aqueous solution L14980

Synonyms	No information available
Recommended Use	Laboratory chemicals.
Uses advised against	Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

#### Company Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

#### Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **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

**Product Name** 

Cat No. :

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

Acute Inhalation Toxicity - Vapors Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 4 Category 1 B Category 1 Category 3

#### Label Elements

Signal Word Danger

#### Hazard Statements

Causes severe skin burns and eye damage May cause respiratory irritation

Harmful if inhaled



## **Precautionary Statements**

#### Prevention

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

### Response

Immediately call a POISON CENTER or doctor/physician

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **Ingestion** 

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

## Storage

Store locked up

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

#### 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 %
Hydroxyacetic acid	79-14-1	66-70
Water	7732-18-5	30-34

4. First-aid measures			
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.		
Inhalation	If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.		

Ingestion	Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically
	5. Fire-fighting measures

 Suitable Extinguishing Media
 Carbon dioxide (CO 2). Powder. Water spray. In case of major fire and large quantities:

 Evacuate area. Fight fire remotely due to the risk of explosion. CO 2, dry chemical, dry sand, alcohol-resistant foam.

 Unsuitable Extinguishing Media

Unsuitable Extinguishing Media	NO INICITIATION 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**

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

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

<u>NFPA</u>	Health 3	<b>Flammability</b> 0	<b>Instability</b> 0	Physical hazards -
		6. Accidental re	lease measures	
Personal	Precautions		n. Use personal protective equ eep people away from and upw	
Environm	ental Precautions		o the environment. See Section	

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.
Storage.	Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong bases. Oxidizing agent.

8. E	xposure controls / personal protection
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.
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.
Recommended Filter type:	Organic gases and vapours filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	sweet
Odor Threshold	No information available
рН	2 5% aq.solution
Melting Point/Range	No data available
Boiling Point/Range	112 °C / 233.6 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	23 hPa @ 20 °C
Vapor Density	No information available
Specific Gravity	1.27 g/cm3
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C2 H4 O3
Molecular Weight	76.05

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.

Incompatible Materials Strong bases, Oxidizing agent							
Hazardous Decomp	lazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)						
Hazardous Polymerization Hazardous polymerization does not occur.							
Hazardous Reaction	None under normal processing.						
11. Toxicological information							
Acute Toxicity							
Product Information Oral LD50 Dermal LD50 Vapor LC50 Component Information			Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Category 4. ATE = 10 - 20 mg/l.				
Componer			LD50 Oral		LD50 Dermal	1 C 50	Inhalation
Hydroxyacetic			1950 mg/kg ( Rat )		Not listed		L (Rat)4h
			2040 mg/kg ( Rat )				L (Rat) 4h
Water			-		-		-
Toxicologically Syn Products	-		No information ava		(		
Delayed and immed	liate effects	s as w	ell as chronic effe	cts from shor	t and long-term expo	sure_	
Irritation			No information ava	ailable			
Sensitization			No information available				
Carcinogenicity			The table below inc	dicates whethe	er each agency has lis	ted any ingredient a	as a carcinogen.
Component	CAS N	0	IARC	NTP	ACGIH	OSHA	Mexico
Hydroxyacetic acid	79-14-	1	Not listed	Not listed	Not listed	Not listed	Not listed
Water	7732-18	8-5	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects         No information available							
Reproductive Effects			No information available.				
Developmental Effe	cts		No information ava	ailable.			
Teratogenicity No information available.							
STOT - single exposureRespiratory systemSTOT - repeated exposureNone known							
Aspiration hazard			No information available				
Symptoms / effects,both acute and delayedProduct is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion cau severe swelling, severe damage to the delicate tissue and danger of perforation			estion causes				
Endocrine Disrupto	r Informatio	on	No information ava	ailable			
Other Adverse Effects The toxicological properties have not been fully investigated.							
			12. Ecolo	ogical inf	ormation		
E 4 1 14							

Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Hydroxyacetic acid	Not listed	LC50: > 5000 mg/L, 96h	Not listed	Not listed

	static (Brach	ydanio rerio)		
Persistence and Degradability	Miscible with water Persist	tence is unlike	ely based on information a	vailable.
<b>Bioaccumulation/ Accumulation</b>	No information available.			
Mobility	Will likely be mobile in the	environment	due to its water solubility.	
Componer	nt		log Pow	
Hydroxyacetic	acid		0.3	
	13. Disposal c	onsider	ations	
Waste Disposal Methods	Chemical waste generator hazardous waste. Chemic national hazardous waste	al waste gen	erators must also consult l	local, regional, and
	14. Transpor	t inform	ation	
DOT				
UN-No	UN3265			
Proper Shipping Name	Corrosive liquid, acidic, or	ganic, n.o.s.		
Technical Name	(Glycolic acid)			
Hazard Class	8			
Packing Group	II			
TDG				
UN-No	UN3265			
Proper Shipping Name	Corrosive liquid, acidic, or	ganic, n.o.s.		
Hazard Class	8			
Packing Group	II			
IATA				
UN-No	UN3265			
Proper Shipping Name	Corrosive liquid, acidic, or	ganic, n.o.s.		
Hazard Class	8			
Packing Group	II			
IMDG/IMO				
UN-No	UN3265			
Proper Shipping Name	Corrosive liquid, acidic, or	ganic, n.o.s.		
Hazard Class	8			
Packing Group	11			
	15. Regulator	y inform	ation	

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Hydroxyacetic acid	79-14-1	Х	ACTIVE	-
Water	7732-18-5	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

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
Hydroxyacetic acid	79-14-1	Х	-	201-180-5	Х	Х	Х	Х	Х	KE-20315
Water	7732-18-5	Х	-	231-791-2	Х	Х		Х	Х	KE-35400

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

#### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylva	ania Illinois	Rhode Island		
Water	-	-	X	-	-		
LC Department of Trans	nortation						
J.S. Department of Trans	•						
Reportable Quantity (RQ):	N						
DOT Marine Pollutant	N						
DOT Severe Marine Polluta	ant N						
U.S. Department of Homeland This product does not contain any DHS chemicals. Security							
Other International Regul	ations_						
Mexico - Grade No information available							
Authorisation/Restriction	s according to EU	REACH N	ot applicable				
Component	CAS	lo REACH	(1907/2006) -	REACH (1907/2006) -	REACH Regulation (EC		
		Annex XI	/ - Substances	Annex XVII - Restriction	s 1907/2006) article 59		

Subject to Authorization

on Certain Dangerous

Substances

Candidate List of

Substances of Very High

				Concern (SVHC)
Hydroxyacetic acid	79-14-1	-	-	-
Water	7732-18-5	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Hydroxyacetic acid	79-14-1	Listed	Not applicable	Not applicable	Not applicable
Water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

#### **Other International Regulations**

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Hydroxyacetic acid	79-14-1	Not applicable	Not applicable	Not applicable	Annex I - Y34
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information	
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com	
Revision Date Print Date Revision Summary	01-Apr-2024 01-Apr-2024 New emergency telephone response service provider.	

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**