

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 19 DEC 2022

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SECTION 1: Identification			
1.1. Identification			
Product form	: Mixture		
Product name	: Glycolic Acid, 70%		
Product code	: 3554-02		
1.2. Recommended use and restrictions	on use		
Use of the substance/mixture	: For laboratory and manufacturing use only.		
Recommended use	: Laboratory chemicals		
Restrictions on use	: Not for food, drug or household use		
1.3. Supplier			
Astral Diagnostics Inc.			
Logan Township NJ 08085 - United States T +1 856 224 0900			
800-441-0366 Technical Service; Monday-Frida	V. 8:00.4M_5:00 PM Eastern US Time		
www.ethosbiosciences.com	y. 0.00AW-0.00 FW, Lasteri 00 Fille		
1.4. Emergency telephone number Emergency number	: 800-424-9300 CHEMTREC (USA) 24 Hours/Day, 7 Days/Week		
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or m	nxture		
GHS US classification			
Skin corrosion/irritation Category 1B	H314 Causes severe skin burns and eye damage		
Serious eye damage/eye irritation Category 1	H318 Causes serious eye damage		
Acute toxicity, inhalation Category 4	H332 Harmful if inhaled		
Hazardous to the aquatic environment, acute ha	zard Category 3 H402 Harmful to aquatic life		
Full text of H statements : see section 16			
2.2. GHS Label elements, including pred	autionary statements		
GHS US labeling			
Hazard pictograms (GHS US)			
Signal word (GHS US)	:Danger :H314 - Causes severe skin burns and eye damage		
Hazard statements (GHS US)	H314 - Causes serious eye damage		
	H332 - Harmful if inhaled		
Precautionary statements (GHS US)	H402 - Harmful to aquatic life : P260 - Do not breathe mist, vapors, spray.		
	P264+P265 - Wash exposed skin thoroughly after handling. Do not touch eyes.		
	P271 - Use only outdoors or in a well-ventilated area.		
	P273 - Avoid release to the environment. P280 - Wear protective gloves, eye protection, protective clothing, face protection.		
	P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.		
	P302+P361+P354 - IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse with water for several minutes.		
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P316 - Get emergency medical help immediately.			
	P363 - Wash contaminated clothing before reuse.		
	P405 - Store locked up. P501 - Dispose of contents/container to comply with local, state and federal regulations.		

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23	Other hazards which do not r	esult in classification
2.5.		court in classification
Other ha	azards not contributing to the	: None.
classific	ation	

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Water	(CAS-No.) 7732-18-5	50	Not classified
Glycolic acid	(CAS-No.) 79-14-1	50	Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox 4 (inhalation), H332 Aquatic Acute 3, H402

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	 Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and effect	ts (acute and delayed)
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: Harmful if inhaled. Possible inflammation of the respiratory tract.
Symptoms/effects after skin contact	: Caustic burns/corrosion of the skin.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: No information available.
Chronic symptoms	: No information available.

4.3. Immediate medical attention and special treatment, if necessary

Obtain medical assistance.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Specific hazards arising from the o	chemical	
Fire hazard	: Not flammable.	
Explosion hazard	: Not applicable.	
Reactivity in case of fire	: Thermal decomposition may generate : Corrosive vapors.	
5.3. Special protective equipment and	precautions for fire-fighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	
Other information	: Not applicable.	

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SECTI	ON 6: Accidental release meas	sures		
6.1.	Personal precautions, protective equipment and emergency procedures			
General	measures	: Try to stop release. Dike and contain spill.		
6.1.1.	For non-emergency personnel			
Protectiv	e equipment	: Gloves. Safety glasses. Protective clothing. Face-shield.		
Emerger	cy procedures	: Evacuate unnecessary personnel.		
6.1.2.	For emergency responders			
Protectiv	<i>r</i> e equipment	: Equip cleanup crew with proper protection.		
Emerger	ncy procedures	: Ventilate area.		
6.2.	Environmental precautions			
Prevent	entry to sewers and public waters. Notify	y authorities if liquid enters sewers or public waters.		
6.3.	Methods and material for containment and cleaning up			

For containment	: Take up liquid spill into inert absorbent material.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray.
Hygiene measures	: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use.
Incompatible products	: Light metals, oxidizing agents, cyanides, sulfides, nitrogen oxides
Incompatible materials	: Direct sunlight.
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: (strong) bases.
Storage area	: Keep container tightly closed.
Packaging materials	: Do not store in corrodable metal.

SECTION 8: Exposure controls/personal protection

8.1.	Control parameters
Glycol	ic Acid (79-14-1)
Not ap	plicable
Water	(7732-18-5)
Not ap	plicable

8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Chemical resistant apron. Face shield. Gloves. Protective clothing. Safety glasses.

Hand protection:

Wear protective gloves.

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Eye protection:

Chemical goggles or face shield

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Respiratory protection not required in normal conditions

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and c	hemical properties
Physical state	: Liquid
Color	: Slightly yellow
Odor	: Mild, of burnt sugar
Odor threshold	: No data available
рН	: Acidic
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: No data available
Molecular mass	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not applicable.
Oxidizing properties	: None.
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

TThe product is stable under normal storage and handling conditions.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions	
No information available.	
10.4. Conditions to avoid	
No information available.	
10.5. Incompatible materials	
Light metals, oxidizing agents, cyanides, sulfides	, nitrogen oxides
10.6. Hazardous decomposition products	-
Thermal decomposition may generate : Corrosiv	
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SECTION 11: Toxicological informat	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Glycolic Acid (79-14-1)	
LD50 oral rat	1937mg/kg
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns.
	pH: Acidic
Serious eye damage/irritation	: Causes serious eye damage.
	pH: Acidic
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Likely routes of exposure	: Skin and eye contact.
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: Possible inflammation of the respiratory tract.
Symptoms/effects after skin contact	: Caustic burns/corrosion of the skin.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: No data available
Chronic symptoms	: No data available
SECTION 12: Ecological information	

SECTION 12: Ecological information

12.1. Toxicity	
Glycolic Acid (79-14-1)	
LC50 fish 1	114.8 mg/l (96 h, Pimephales promelas (fathead minnow), Pure substance)
EC50 Daphnia 1	99.6 mg/l (48 h, Daphnia magna, Pure substance)
ErC50 Aquatic plants	31.2 mg/l (72 h, Pseudokirchneriella subcapitata (green algae), Pure substance)

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12.2. Persistence and degradability	
Glycolic Acid (79-14-1)	
Persistence and degradability	Readily biodegradable. (OECD Test Guideline 301B)
Water (7732-18-5)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Glycolic Acid (79-14-1)	
Log Pow	-1.07
Water (7732-18-5)	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No information available	
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ns
13.1. Disposal methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN3265, 8, II Corrosive liquid, acidic, organic, n.o.s. (Glycolic Acid, Solution)
UN-No.(DOT)	: UN3265
Proper Shipping Name (DOT)	: Glycolic acid solution
Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: II - Medium Danger
Hazard labels (DOT)	: 8 - Corrosive
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DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	: A6 - For combination packaging, if plastic inner packaging are used, they must be packed in
	tightly closed metal receptacles before packing in outer packaging. B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are
	not authorized.
	IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite
	(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
	N41 - Metal construction materials are not authorized for any part of a packaging which is
	normally in contact with the hazardous material.

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	T11 - 6 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	 B- (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. No supplementary information available.
Other information	
Transportation of Dangerous Goods	
Transport document description UN-No. (TDG)	: UN3265 GLYCOLIC ACID, 8, II
Proper Shipping Name (Transportation of Dangerous Goods)	: UN3265
TDG Primary Hazard Classes	: GLYCOLIC ACID
Packing group	: 8 - Class 8 - Corrosives
ERAP Index	: II - Medium Danger
Explosive Limit and Limited Quantity Index	: 3 000
Passenger Carrying Road Vehicle or Passenger	
Carrying Railway Vehicle Index	: 1L
Transport by sea	
Transport document description (IMDG)	: UN 3265 GLYCOLIC ACID, 8, II
UN-No. (IMDG)	: 3265
Proper Shipping Name (IMDG)	: GLYCOLIC ACID
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
Transport document description (IATA)	: UN 3265 Glycolic acid, 8, II
UN-No. (IATA)	: 3265
Proper Shipping Name (IATA)	: Glycolic acid
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: II - Medium Danger

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SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

Glycolic Acid (79-14-1)

Listed on the Canadian DSL (Domestic Substances List)

Water (7732-18-5) Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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ull text of H-phrases:	
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H402	Harmful to aquatic life

NFPA fire hazard	serious or permanent injury.
NFPA reactivity	: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	\checkmark
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability Physical	: 0 Minimal Hazard - Materials that will not burn
	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: H
	H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

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