



Silver Fern Chemical, Inc.

Safety Data Sheet Diglycolamine(DGA)

Section 1: Identification

Product Name:	Diglycolamine (DGA)	
Synonyms:	2-(2-Aminoethoxy)ethanol (ADEC) Diethylene Glycol Amine; 2,2'-hydroxyethoxyethylamine; Aminodiglycole	
CAS #:	929-06-6	24 Hour Emergency Number:
Chemical Formula:	C4H11NO2	+1-800-535-5053 Outside USA & Canada +1-352-323-3500
Company:	Silver Fern Chemical, Inc. 121 W. De La Guerra Street, Suite B Santa Barbara, CA 93101 USA	Customer Service: Phone - 1-866-282-3384 Email - info@silverfernchemical.com Website - www.silverfernchemical.com
Recommended Use:	Industrial uses.	
Restrictions on Use:	No data available.	

Section 2: Hazard Identification

GHS Label elements:

GHS Classification

Acute toxicity, dermal
Acute toxicity, oral
Skin corrosion/irritation

Category

4
5
1

Pictogram:



Signal Word: **Danger**

Code	Hazard Statement
H303	May be harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage

Code	Precautionary Statement
P260	Do not breathe dust/fumes/gas/mist/vapor/spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/clothing and eye/face protection.
P301+ P312	IF SWALLOWED: Call A POISON CENTER/doctor, if you feel unwell.
P301+ P330+ P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+ P352	IF ON SKIN: Wash with plenty of water.
P303+ P361+ P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse with water [or shower].

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.
P310	Immediately call a POISON CENTER/doctor
P312	Call A POISON CENTER/doctor, if you feel unwell.
P362+ P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional regulations.

Other classifications:

NFPA Rating:

Health: 3
Fire: 1
Reactivity: 0

HMIS Rating:

Health: 3
Flammability: 1
Physical: 0

Section 3: Composition / Information on Ingredients

Component	CAS Number	Concentration	EC Number
2-(2-aminoethoxy) ethanol	929-06-6	98 - 100 %	213-195-4

Section 4: First Aid Measures

Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen provided a qualified individual is present. If not breathing, apply artificial respiration. Get medical attention.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If victim is conscious and alert, rinse mouth with water and give plenty of water to drink. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Skin Contact:	Flush skin with plenty of soap and water, while removing contaminated clothing and shoes. Wash clothing before reuse or discard if they cannot be thoroughly cleaned. Get immediate medical attention.
Eye Contact:	Flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do so. Get immediate medical attention.
Note to Physician:	Treat symptomatically and supportively.

Section 5: Fire Fighting Measures

Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Special Protective Equipment:	Wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full protective gear.
Specific Hazards:	Fire residues and contaminated water must be disposed of in accordance with local regulations. Dike fire control water for appropriate disposal.

Section 6: Accidental Release Measures

Emergency Procedures:	Wear personal protection equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Keep unnecessary personnel away and upwind.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods of containment/cleanup:	Absorb with inert materials and place into appropriate containers for disposal. Large spills should be collected mechanically (remove by pumping) for disposal.☐ Wash residual traces with water. Notify appropriate authorities and dispose of in accordance with applicable requirements.

Section 7: Handling and Storage

Handling:	Wear personal protection equipment. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Use only in well-ventilated area. Wash thoroughly after handling. Empty containers retain product residue (liquid and/or vapor), and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to sources of ignition. Ground and bond containers when transferring material to avoid static discharges. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharge.
Storage:	May yellow after lengthy storage. Store tightly closed container in a cool, dry, well-ventilated area. Keep isolated from incompatible materials. Store containers in a room at ambient temperature and pressure.

Suitable packaging material: Carbon/stainless steel, high density polyethylene (HDPE), or glass.

Section 8: Exposure Controls / Personal Protection

Exposure Limit:	No exposure limits established.
Engineering Controls:	Use adequate ventilation to keep airborne concentrations low. An emergency eye wash/shower must be readily accessible to the work area.
Personal Protective Equipment:	
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134. In confined areas, use a self-contained breathing apparatus.
Skin Protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.
Recommended glove material: Nitrile rubber	
Eye Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Section 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	Clear, colorless to yellow

Odor:	Amine-like
Odor Threshold:	Not determined due to potential health hazard by inhalation.
pH:	10.2 (10 g/l at 20 °C)
Melting/Freezing Point:	-11 °C
Boiling Point:	222.5°C to 223.8 °C
Decomposition Temperature:	345 °C
Flash Point:	127 °C
Auto-ignition Temperature:	370 °C
Flammability/Explosive Limits:	Lower: 2 % (V)
Vapor Pressure:	0.01423 hPa at 20 °C
Vapor Density (air=1):	No data available
Relative Density (water=1):	1.06 at 20 °C
Solubility (in water):	Completely Miscible
Partition coefficient: n-Octanol/water:	Log Pow: -1.89
Evaporation Rate (Butyl Acetate=1)	No data available
Kinematic Viscosity	No data available
Molecular Weight:	105.14 g/mol

Section 10: Stability and Reactivity

Stability:	Stable at room temperature and under normal conditions.
Hazardous Reactions:	Strong exothermic reaction with acids.
Conditions to Avoid:	Avoid heat, sparks, open flames and other sources of ignition.
Incompatible Materials:	Strong oxidizing agents, strong acids.
Decomposition Products:	Carbon oxides, nitrogen oxides.

Section 11: Toxicological Information

Potential Health Effects:

Inhalation:	Not expected to be harmful.
Skin Contact:	Harmful in contact with skin Causes severe skin burns.
Eye Contact:	Causes severe eye damage.
Ingestion:	May be harmful if swallowed.

Numerical Measures of Acute Toxicity:

	Route	Test	Subject	Value	Time
	Oral	LD 50	Rat	3,400 mg/kg	
	Dermal	LD 50	Rabbit	> 3,000 mg/kg	

Additional Information:

RTEC #:	KJ6125000
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Aspiration Toxicity: No aspiration hazard expected.

Carcinogenicity: This product is not classified as a carcinogen by IARC or U.S. ACGIH, NTP or OSHA.

Germ cell mutagenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.

Sensitization: Not classified based on available information.

STOT - Repeated Exposure: Not classified based on available information.

STOT - Single Exposure: Not classified based on available information.

Section 12: Ecological Information

Ecotoxicity	Group	Test	Subject	Value	Time
	Fish:	LC 50	Leuciscus idus	460 mg/L	96 hours
	Aquatic invertebrates:	EC 50	Daphnia magna	189 mg/L	48 hours
	Aquatic plants:	EC 50	Scenedesmus subspicatus	202 mg/L	72 hours
	Micro-organisms:	EC 50	Pseudomonas putida	110 mg/L	17 hours

Persistence and Degradability: Readily Biodegradable.

Bioaccumulative Potential: Low potential for bioaccumulation.

Mobility in Soil: High potential for soil mobility.

Section 13: Disposal Considerations

Packaging: Empty containers may retain product residue, follow label warnings even after container is emptied.

Disposal: Dispose of according to Federal, State, and Local Regulations.

Section 14: Transportation Information

The information in this section is for reference only and should not take the place of a bill of lading specific to an order.

UN #: UN3055
Proper Shipping Name: 2-(2-Aminoethoxy) ethanol

Transport Hazard Class: 8
Packing Group: III
Labels & Placards: CORROSIVE
Marine Pollutant: No
EMS: F-A, S-B

Section 15: Regulatory Information

US Federal - TSCA: This product is listed on the TSCA active inventory.

California - Prop 65: This product is not subject to the State of California's Proposition 65 regulations.

Section 16: Other Information

Revision Date: Wednesday, February 26, 2020

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