

Nanjing Chemical Material Corp.

Material Safety Data Sheet

FOR GLYCOLIC ACID

**** SECTION 1 –PRODUCT AND COMPANY IDENTIFICATION ****

Product name: Glycolic Acid

Synonyms: Glycolic Acid, 70%, solution; Hydroxyacetic Acid

Company: Nanjing Chemical Material Corp.

Product Use: Various

**** SECTION 2. HAZARDS IDENTIFICATION ****

Classification of the GHS

PHYSICAL HAZARDS	Corrosive to metals	Category 1
HEALTH HAZARDS	Acute toxicity (Oral)	Category 4
	Skin corrosion/irritation	Category 1C
	Serious eye damage/eye irritation	Category 1
ENVIRONMENTAL HAZARDS		Not Classified

GHS label elements

Pictograms or hazard symbols



Signal word

Danger

Hazard statement

May be corrosive to metals

Harmful if swallowed

Causes severe skin burns and eye damage

Precautionary statements

Prevention	<p>Keep only in original container. Do not breathe. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection.</p>
Response	<p>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician. Absorb spillage to prevent material damage.</p>
Storage	Store locked up.
Disposal	Dispose of contents/container through a waste management company authorized by the local government.

**** SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS ****

COMPONENT	CAS-No.	CONCENTRATION
Glycolic acid	79-14-1	64-72%
Water	7732-18-5	28-36%

**** SECTION 4 –FIRST AID MEASURES ****

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial

cream. Seek immediate medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

**** **SECTION 5 –FIRE-FIGHTING MEASURES** ****

Flammable Properties Flash point

Does not flash

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Firefighting Instructions

Wear self-contained breathing apparatus and protective suit. Will react with most metals, releasing potentially explosive hydrogen gas.

**** **SECTION 6–ACCIDENTAL RELEASE MEASURES** ****

Personal precautions, protective equipment and emergency procedures

Use extra personal protective equipment (P3 filter respirator for toxic particles). Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions

Try to prevent the material from entering drains or water courses.

Methods and materials for containment and cleaning up

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

**** **SECTION 7–HANDLING AND STORAGE** ****

Handling:

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid breathing mist. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Store locked up. Store away from incompatible materials such as oxidizing agents.

****SECTION 8–EXPOSURE CONTROLS / PERSONAL PROTECTION ****

Engineering Controls:

Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment Respiratory protection

Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

**** SECTION 9–PHYSICAL AND CHEMICAL PROPERTIES ****

Physical state and appearance: Liquid. (Clear to slightly hazy liquid.) **Odor:** Odorless.

Color: Colorless to light yellow.

pH (1% soln/water): 2.33 [Acidic.]

Boiling Point: 100°C (212°F)

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: 1.27 (Water = 1)

Vapor Pressure: The highest known value is 2.3 kPa (@ 20°C) (Water). **Vapor Density:** The highest known value is 0.62 (Air = 1) (Water). **Volatility:** Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, methanol, diethyl ether, acetone.

Solubility: Easily soluble in cold water. Soluble in methanol, diethyl ether, acetone.

**** SECTION 10–STABILITY AND REACTIVITY ****

Stability:

Instability Temperature: Not available. **Conditions**

of Instability: Incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, alkalis.

Hazardous Decomposition Products: Decomposition will not occur.

Special Remarks on Reactivity: Aliphatic amines, isocyanates, alkylene oxides, epichlorohydrin, caustics, ammonia, sulfuric acid

Polymerization: Will not occur.

****** SECTION 11 - TOXICOLOGICAL INFORMATION ******

Routes of Entry: Absorbed through skin. Eye contact. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 2743 mg/kg (Guinea pig) (Calculated value for the mixture).

Chronic Effects on Humans: DEVELOPMENTAL TOXICITY: Classified Development toxin [POSSIBLE] [Glycolic acid, 70%].

Other Toxic Effects on Humans:

Very hazardous in case of skin contact (irritant), of ingestion, . Hazardous in case of skin contact (corrosive), of eye contact (corrosive), of inhalation (lung corrosive).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May cause adverse reproductive effects (fetotoxicity and developmental abnormalities) according to animal studies. No human studies information for humans was found.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin: Causes severe skin irritation and skin burns. May be harmful if absorbed through skin.

Eyes: Causes severe eye irritation and eye burns.

Inhalation: May be harmful if inhaled. Causes severe irritation of the respiratory tract and mucous membranes. May cause chemical burns to the respiratory tract. May affect respiration (dyspnea), sense organs, and metabolism (weight loss, metabolic acidosis).

Ingestion: May be harmful if swallowed. Causes irritation of the digestive tract. May cause digestive (gastrointestinal) tract burns. May affect behavior (somnolence or general depressed activity), urinary system (kidneys -oxalate crystals present in renal tubules), metabolism (weight loss, metabolic acidosis), and blood. Chronic Potential Health Effects: No information found

****** SECTION 12-ECOLOGICAL INFORMATION ******

Ecotoxicity: Not available. **BOD5 and COD:** Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely.

However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

****** SECTION 13-DISPOSAL CONSIDERATIONS ******

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

****** SECTION 14-TRANSPORT INFORMATION ******

DOT Classification: Class 8: Corrosive material

Identification: Corrosive liquid, acidic, organic, n.o.s. (Glycolic acid, solution)
(Glycolic acid) UN No: 3265 PG: II

Special Provisions for Transport: Not available.

**** **SECTION 15—OTHER REGULATORY INFORMATION** ****

Federal and State Regulations: TSCA 8(b) inventory: Glycolic acid

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS E: Corrosive liquid.

DSCL (EEC):

R22-Harmful if swallowed.

R34-Causes burns.

S25-Avoid contact with eyes.

S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28-After contact with skin, wash immediately with plenty of [***] S36/37/39-

Wear suitable protective clothing, gloves and eye/face protection.

S45-In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 0

Reactivity: 0

Personal Protection: h

National Fire Protection Association

(U.S.A.): Health: 3

Flammability: 0

Reactivity: 0

Specific hazard:

Protective

Equipment: Gloves.

Lab coat.

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

****** SECTION 16–OTHER INFORMATION ******

Prepared by: Health & Safety

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End of Safety Data Sheet

