

Material Safety Data Sheet



Glycolic Acid 70% High Purity

Version 2.3

Revision Date 10/17/2011

Ref. 130000000229

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Glycolic Acid 70% High Purity
Tradename/Synonym : Glycolic Acid 70% HP

MSDS Number : 130000000229

Product Use : various

Manufacturer : DuPont
1007 Market Street
Wilmington, DE 19898

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects

Skin

Glycolic acid : Causes skin burns.
May cause: Corrosion with pain, ulceration or blisters, cracking or peeling of skin.

Eyes

Glycolic acid : Causes eye burns. May cause blindness.

Inhalation

Glycolic acid : May cause respiratory tract irritation.

Ingestion

Glycolic acid : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Causes digestive tract burns.

Carcinogenicity

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None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Glycolic acid	79-14-1	64.1 - 66.7 %
Water	7732-18-5	~ 30 %

SECTION 4. FIRST AID MEASURES

- Skin contact : Wash off immediately with plenty of water. Take off all contaminated clothing immediately. Consult a physician. Wash contaminated clothing before re-use.
- Eye contact : Rinse immediately with plenty of water and seek medical advice.
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.
- Ingestion : Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

- Flammable Properties
- Flash point : does not flash
- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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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

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Use personal protective equipment.

Spill Cleanup : Neutralize with: lime soda ash If this product is spilled and not recovered, or is recovered as a waste for treatment or disposal, the CERCLA Reportable Quantity is 100 lbs. (release of an Unlisted Hazardous Waste with the Characteristic of Corrosivity.)

Accidental Release Measures : Try to prevent the material from entering drains or water courses.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Avoid breathing mist. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Storage : Keep in a well-ventilated place. Keep tightly closed. Keep away from heat.

Storage temperature : > 10 °C (> 50 °F)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Use only with adequate ventilation.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection : Material: Impervious gloves

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- Eye protection : Wear coverall chemical splash goggles.
- Skin and body protection : Where there is potential for skin contact have available and wear as appropriate:
Complete suit protecting against chemicals

Exposure Guidelines Exposure Limit Values

Glycolic acid
AEL * (DUPONT) 10 mg/m3 8 & 12 hr. TWA

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
- Color : colourless
- Odor : not significant
- pH : 0.1 at 25 °C (77 °F)
- Solidification point : 10 °C (50 °F)
- Boiling point : 112 °C (234 °F) at 760 mm Hg
- Oxidizing : The product is not oxidizing.
- Vapour Pressure : 0.0041 hPa at 25 °C (77 °F)
(for a component of this mixture)
- Specific gravity : 1.26 at 20 °C (68 °F)
- Water solubility : completely miscible
- Viscosity, kinematic : 6.149 mm²/s at 23 °C (73 °F)

SECTION 10. STABILITY AND REACTIVITY

- Incompatibility : Oxidizing agents Cyanides, Sulphides, active metals (such as sodium, potassium, magnesium)
- Hazardous decomposition : Decomposition will not occur.



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products
Hazardous reactions : Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Glycolic acid

- Oral LD50 : 2,040 mg/kg (70% solution), rat
- Inhalation 4 h LC50 : 3.6 mg/l , male, rat
- Skin irritation : Corrosive, rabbit
- Eye irritation : Corrosive, rabbit
- Skin sensitization : Did not cause sensitization on laboratory animals., guinea pig
- Repeated dose toxicity : Oral
rat
Weight loss
Inhalation
rat
Liver effects
- Mutagenicity : Did not cause genetic damage in animals.
Did not cause genetic damage in cultured mammalian cells.
Did not cause genetic damage in cultured bacterial cells.
- Reproductive toxicity : Animal testing showed no reproductive toxicity.
- Teratogenicity : Several developmental toxicity studies have been conducted with ethylene glycol (metabolized to glycolic acid) or with glycolic acid in mammals. The majority of studies conducted with rodents demonstrate developmental toxicity only at high dietary exposure levels which also produce other toxic effects in the adult animal. Based on the weight of evidence, glycolic acid is not considered a unique developmental hazard to the embryo.

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SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Glycolic acid

- 96 h LC50 : Pimephales promelas (fathead minnow) 164 mg/l
- 72 h EbC50 : Pseudokirchneriella subcapitata (green algae) 22.5 mg/l
- 48 h EC50 : Daphnia magna (Water flea) 141 mg/l

Environmental Fate

Glycolic Acid 70% High Purity Biodegradability

- : Readily biodegradable, according to appropriate OECD test.

SECTION 13. DISPOSAL CONSIDERATIONS

- Waste Disposal : Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations. May be a RCRA hazardous waste due to the corrosivity characteristic (pH).
- Environmental Hazards : Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

- DOT UN number : 3265
- Proper shipping name : Corrosive liquid, acidic, organic, n.o.s. (Glycolic acid)
- Class : 8
- Packing group : II
- Labelling No. : 8
- IATA_C UN number : 3265
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Contact person : MSDS Coordinator, DuPont Chemicals and Fluoroproducts, Wilmington, DE
19898, (800) 441-7515

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