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## MSDS Document

Product: **GLYCOLIC ACID 70%**

### 1. Chemical Product and Company Identification Trade Name of this

**Product GLYCOLIC ACID 70%**

**Synonyms: HYDROXYETHANOIC ACID**

**MSDS ID 0295**

### 2. Composition and Information on Ingredients

<b>Ingredient</b>	<b>CAS Number</b>	<b>Weight %</b>
GLYCOLIC ACID	79-14-1	70%

### 3. Hazard Identification

EFFECTS OF OVEREXPOSURE:

SYMPTOMS OF INGESTION: CAUSES SEVERE IRRITATION. MAY CAUSE DAMAGE TO THE GASTRO-INTESTINAL TRACT. SYMPTOMS MAY INCLUDE NAUSEA, VOMITING, DIARRHEA AND PAIN.

SYMPTOMS OF INHALATION: CAUSES IRRITATION TO THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. PROLONGED OR REPEATED EXPOSURE MAY CAUSE BURNS AND SCARRING OF THE AIRWAYS. SYMPTOMS MAY INCLUDE COUGHING, SNEEZING, AND SHORTNESS OF BREATH.

SYMPTOMS OF SKIN CONTACT: CORROSIVE. CAUSES SEVERE IRRITATION AND BURNING OF THE SKIN. SYMPTOMS MAY INCLUDE ITCHING, BURNING, REDNESS AND PAIN.

*5103 Commercial Park Drive, Ste. A · Austin TX 78724*

*(512) 535::2711 ·(512) 535::7362 fax*

[www.ingredientstodiefor.com](http://www.ingredientstodiefor.com) · [help@ingredientstodiefor.com](mailto:help@ingredientstodiefor.com)



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SYMPTOMS OF EYE CONTACT: CORROSIVE. CAUSES SEVERE IRRITATION OR BURNS WITH EYE DAMAGE. SYMPTOMS INCLUDE TEARING AND WATERY EYES, BURNING WITH REDNESS AND PAIN.

CHRONIC EXPOSURE: THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN THOROUGHLY INVESTIGATED.

#### **4. First Aid Information**

EYE CONTACT: IMMEDIATELY FLUSH WITH COPIOUS AMOUNTS OF WATER FOR ATLEAST 15 MINUTES WHILE HOLDING EYELIDS APART. WASHING WITHIN ONE MINUTE IS ESSENTIAL TO ACHIEVE MAXIMUM EFFECTIVENESS. SEEK IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRER BEFORE REUSE. IF IRRITATION SHOULD DEVELOP, GET MEDICAL ATTENTION.

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CONSULT A PHYSICIAN IMMEDIATELY.

INGESTION: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING. GIVE PATIENT SEVERAL GLASSES OF WATER OR MILK IF AVAILABLE. CALL A PHYSICIAN.

NOTES TO PHYSICIAN: TREAT PATIENT SYMPTOMATICALLY.

#### **5. Fire Fighting Measures**

GLYCOLIC ACID IS NOT CONSIDERED A FIRE HAZARD. CONTACT WITH MOST COMMON METALS MAY RELEASE FLAMMABLE HYDROGEN GAS.

FLASH POINT (DEG C): ND  
TEST METHOD: ND  
FLAMMABLE LIMITS (% BY VOL): ND  
LEL: ND  
UEL:ND  
AUTOIGNITION TEMP. (DEG C): ND

EXTINGUISHING MEDIA: USE CARBON DIOXIDE, DRY CHEMICAL, FOAM, OR WATER SPRAY TO FIGHT SURROUNDING FIRE. AVOID FLUSHING SOLUTION TO SEWER OR STREAM.

SPECIAL FIRE FIGHTING PROCEDURES: USE NIOSH APPROVED SELF-CONTAINED (POSITIVE PRESSURE) BREATHING APPARATUS AND PROTECTIVE CLOTHING APPROPRIATE TO THE SURROUNDING FIRE.



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UNUSUAL FIRE OR EXPLOSION HAZARDS: RELEASES FLAMMABLE HYDROGEN GAS ON CONTACT WITH MOST COMMON METALS (ALUMINUM, STEEL)

## 6. Accidental Release Measures

SPILL/LEAK CLEAN-UP PROCEDURES: VENTILATE AND EVACUATE AREA. SWEEP, SCOOP, OR VACUUM UP SPILLED MATERIAL. MAY BE ABSORBED ON INERT MATERIAL. PACKAGE FOR RECLAIM OR RECOVERY IF POSSIBLE. DO NOT FLUSH INTO SEWER OR STREAM.

## 7. Handling and Storage

PRECAUTIONARY MEASURES: AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. WEAR PROTECTIVE CLOTHING AND EYE PROTECTION SUITABLE TO THE HAZARD. WASH THOROUGHLY AFTER USING. AVOID BREATHING DUST OR MIST. USE WITH ADEQUATE VENTILATION.

STORAGE AND HANDLING: STORE IN A COOL DRY PLACE, PROTECTED FROM HEAT AND DIRECT SUN AND ISOLATED FROM INCOMPATIBLE MATERIALS.

PROTECT FROM PHYSICAL DAMAGE. KEEP CONTAINERS TIGHTLY CLOSED.

## 8. Exposure Controls and Personal Protection

VENTILATION: A SYSTEM OF LOCAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURE BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL EXHAUST IS USUALLY PREFERRED BECAUSE IT CONTROLS THE EMISSION AT ITS SOURCE, PREVENTING DISPERSION OF IT INTO THE GENERAL WORK AREA. REFER TO THE ACGIH DOCUMENT INDUSTRIAL VENTILATION, A MANUAL OF RECOMMENDED PRACTICES FOR DETAILS.

RESPIRATORY PROTECTION: NIOSH/MSHA APPROVED RESPIRATOR IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS. GENERALLY, A DUST/MIST RESPIRATOR MAY BE WORN IN AREAS WHERE THE TLV IS EXCEEDED UP TO TEN TIMES. (50 TIMES IF THE APPROPRIATE FULL\_FACE RESPIRATOR AND CARTRIDGES ARE USED.) ALTERNATIVELY, A SUPPLIED-AIR FULL FACE-PIECE RESPIRATOR OR AIR-LINE HOOD MAY BE WORN.

EYE PROTECTION: USE SAFETY GLASSES OR CHEMICAL SAFETY GOGGLES. ADD A FACE SHIELD IF THE POTENTIAL FOR SPLASHING EXISTS.

AN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES SHOULD BE MAINTAINED IN THE WORK AREA.

SKIN PROTECTION: USE RUBBER OR GAUNTLET TYPE NEOPRENE IMPERVIOUS GLOVES AND BODY-COVERING CLOTHING.



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PERSONAL HYGIENE: WASH THOROUGHLY AFTER HANDLING.

INGREDIENTS WT PCT PEL TLV(TWA)  
(CAS NO.) (APPROX) MG/M3 PPM MG/M3 PPM

GLYCOLIC ACID 70 ND ND  
(79-14-1)

THE TLV'S ARE GIVEN FOR GUIDANCE; LOCAL APPLICABLE REGULATIONS SHOULD ALWAYS BE FOLLOWED. INGREDIENTS ARE THOSE PRESENT AT 1% OR GREATER, OR AT 0.1% OR GREATER IF LISTED AS POTENTIAL CARCINOGENS BY OSHNIARC/NTP. PROPRIETARY INGREDIENT IDENTITIES ARE AVAILABLE IN ACCORDANCE WITH 29 CFR 1910.1200.

CARCINOGEN: NTP .NO  
IARC .NO  
OSHA .NO

## 9. Physical and Chemical Properties

Product CAS Number 79-14-1  
Molecular Formula C2H4O3

D = DECOMPOSES  
BOILING POINT, 760MM HG (DEG C): 113  
MELTING/FREEZING POINT (DEG C): 10  
SPECIFIC GRAVITY (WATER = 1): 1.27  
VAPOR PRESSURE (MM HG): 11 @ 20 C  
VAPOR DENSITY (AIR = 1): ND  
WATER SOLUBILITY (% BY WI): SOLUBLE  
VOLATILES (% BY WT): 30  
EVAPORATION RATE (BUTYL ACETATE = 1): ND  
PH OF SOLUTION: 1.7 (10% SOLUTION)

APPEARANCE/JODOR WHITE TO STRAW COLORED LIQUID WITH BURNT SUGAR ODOR

## 10. Stability and Reactivity

THERMAL STABILITY: STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE.

INCOMPATIBILITY: STRONG OXIDIZERS, METALS, CYANIDES, SULFIDES.

CONDITIONS TO AVOID: CONTACT WITH INCOMPATIBLES.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE



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## 11. Toxicological Information

TOXICITY DATA:  
ORAL TOXICITY: LD50: 1950 MG/KG (RAT)  
INHALATION TOXICITY: LC50: 7.7 MG/LI4HRS (RAT)

## 12. Ecological Information

## 13. Disposal Considerations

DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL AND REGULATORY REQUIREMENTS.

## 14. Transportation Information

DOT SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(GLYCOLIC ACID)  
DOT HAZARD CLASS: 8  
HAZARDOUS INGREDIENTS: GLYCOLIC ACID  
IDENTIFICATION NUMBER: UN 3265  
PACKING GROUP: II  
LABEL: CORROSIVE

NOTE: DURING AN INCIDENT INVOLVING THIS MATERIAL, USE OF DOT EMERGENCY RESPONSE GUIDE # 153 IS ALSO RECOMMENDED.

## 15. Regulatory Information

TOXIC SUBSTANCES CONTROL ACT(TSCA): CHEMICAL INGREDIENTS ARE ON THE TSCA INVENTORY.

SUPERFUND REPORTABLE QUANTITY(RQ): NOT REGULATED.

HAZARDOUS WASTE NO.: D002, UNSPECIFIED HAZARDOUS WASTE CHARACTERISTIC OF CORROSIVITY.

SARA TITLE III: NOT REGULATED.  
(SECTION 313)

CANADIAN LISTS:  
DSL/NDL:HYDROXYACETIC ACID IS ON THE DOMESTIC SUBSTANCES LIST.



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WHMIS: HYDROXYACETIC ACID IS ITEM NUMBER 854 FROM THE INGREDIENT DISCLOSURE LIST AND IS SUBJECT TO REPORTING AT 1% THRESHOLD.

STATE LISTS: THIS MATERIAL CONTAINS INGREDIENTS THAT MAY BE LISTED FOR REPORTING OR DISCLOSURE IN THE STATES OF CALIFORNIA, CONNECTICUT, AND NEW JERSEY. PLEASE CHECK WITH THE APPROPRIATE STATE AGENCIES.

FOR STATES NOT LISTED: PLEASE CHECK WITH THE APPROPRIATE AGENCIES.

## **16. Other Information**

### Disclaimer

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