

Material Safety Data Sheet

Revision Issued: 8/09/2005

Supersedes: 5/20/92

First Issued: 5/24/88

Section I - Chemical Product And Company Identification

Product Name: Ammonia Absorber

CAS Number: 77-92-9

HBCC MSDS No. CA13100



HILL BROTHERS *Chemical Co.*

1675 NORTHMAIN STREET • ORANGE, CALIFORNIA 92867-3499
(714) 998-8800 • FAX: (714) 998-6310
<http://hillbrothers.com>

1675 No. Main Street, Orange, California 92867

Telephone No: 714-998-8800 | Outside Calif: 800-821-7234 | Chemtrec: 800-424-9300

Section II - Composition/Information On Ingredients

Chemical Name	CAS Number	Exposure Limits (TWAs) in Air		
		ACGIH TLV	OSHA PEL	STEL
Citric Acid	77-92-9	N/A	N/A	N/A

Section III - Hazard Identification

Routes of Exposure: This product may affect the body either through ingestion, contact with the eyes and/or skin.

Summary of Acute Health Hazards

Ingestion: May cause irritation to mouth, throat and stomach.

Inhalation: N/A

Skin: May cause irritation to skin and mucous membranes.

Eyes: Contact with eyes causes irritation.

Summary of Chronic Health Hazards: N/A

Signs and Symptoms of Exposure: May cause eye, skin, or respiratory irritation.

Effects of Overexposure: N/A

Medical Conditions Generally Aggravated by Exposure: N/A

Note to Physicians: N/A

Section IV - First Aid Measures

Ingestion: Treatment not normally required. Give plenty of water to drink. If large amounts ingested, seek medical attention.

Inhalation: Move to fresh air.

Skin: Flush with water for 15 minutes. Dilute solution of Sodium Carbonate will neutralize this product.

Eyes: Flush immediately with saline solution or water for at least 15 minutes. Seek medical attention if irritation persists.

Section V - Fire Fighting Measures

Flash Point: N/A

Autoignition Temperature: 1020°C

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Unusual Fire and Explosion Hazards: N/A

Extinguishing Media: Will not burn unless all water is boiled away, If so use: Water, foam, dry chemical, carbon dioxide.

Special Firefighting Procedures: N/A

Section VI - Accidental Release Measures

Can be flushed with water to sewer, so long as pH has been adjusted to between 6 and 9 with ammonia (aqua), caustic soda or soda ash.

Section VII - Handling and Storage

Keep from freezing; thaw and mix if frozen. Sodium Carbonate will neutralize this product.

Section VIII - Exposure Controls/Personal Protection

Respiratory Protection: N/A

Ventilation: Provide adequate ventilation.

Protective Clothing: Employees should be provided with and required to use impervious clothing, gloves, and other appropriate protective clothing necessary to prevent any possibility of skin contact.

Eye Protection: Safety goggles and/or face shield.

Other Protective Clothing or Equipment: N/A

Work/Hygienic Practices: Employees who handle Ammonia Absorber should wash their hands thoroughly before eating, smoking, or using toilet facilities. A safety shower, an eye bath, and washing facilities should be available.

Section IX - Physical and Chemical Properties

Physical State: Liquid

pH: 1.5 – 1.8

Melting Point/Range: N/A

Boiling Point/Range: 100°C

Appearance/Color/Odor: Light, yellow, clear liquid, odorless

Solubility in Water: Complete

Vapor Pressure(mmHg): N/A

Specific Gravity(Water=1): 1.073

Molecular Weight: N/A

Vapor Density(Air=1): N/A

% Volatiles: 86.3 by Volume

How to detect this compound : N/A

VOC: Approximately 0

Section X - Stability and Reactivity

Stability: Stable **Hazardous Polymerization:** Will not occur
Conditions to Avoid: Do not allow to freeze.
Materials to Avoid: Will corrode copper, zinc, aluminum and their alloys.
Hazardous Decomposition Products: N/A

Section XI - Toxicological Information

N/A

Section XII - Ecological Information

N/A

Section XIII - Disposal Considerations

Ammonia absorber may diluted and then neutralized with caustic solution and flushed into a sewer. Consult Federal, State, or Local Authorities for proper disposal procedures.

Section XIV - Transport Information

DOT Proper Shipping Name: N/A
DOT Hazard Class/ I.D. No.: N/A

Section XV - Regulatory Information

Reportable Quantity: N/A
NFPA Rating: Health - 1; Fire - 0; Reactivity - 0
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
Carcinogenicity Lists: NTP: No **IARC Monograph:** No **OSHA Regulated:** No

Section XVI - Other Information

Synonyms/Common Names: Hydrous Citric Acid
Chemical Family/Type: Organic Acid
Section(s) changed since last revision: IV, V, VII, IX, X
IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.