



SAFETY DATA SHEET

1. PRODUCT AND MANUFACTURER IDENTIFICATION

Product Name: **COMPOUND 302**

Manufacturer Name & Address:

Arcal Chemicals, Inc.
223 West Hampton Avenue
Capitol Heights, MD 20743

General Information:

(Tel) 301-336-9300
(Fax) 301-336-6597

Emergency CHEMTREC:

In case of chemical emergencies
800-424-9300 (within USA)
703-527-3887 (outside of USA)

2. HAZARDS IDENTIFICATION



Emergency Overview: **SIGNAL WORD: WARNING**

Containing less than 10% hydrogen chloride the primary hazard is having prolonged contact with skin. Being a paste, spillage is limited and air contamination is limited. If the paste or clothing contaminated with the paste is allowed to remain in contact with skin for minutes or hours, serious injury may occur, such as irritation and blistering.

Exposure Routes: Eyes, skin, ingestion, inhalation.

Eye contact: **H318:** Causes serious eye damage. If product comes into contact with the eyes, burns may occur.

Skin Contact: **H314:** Causes severe skin burns and eye damage. Contact with skin will cause burns and irritation with prolonged contact.

Ingestion: **H302:** Harmful if swallowed. Large amounts ingested can damage oral and gastric membranes.

Inhalation: **H335:** May cause respiratory irritation. Hydrogen chloride vapors may occur as product dries.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	CAS Number	Concentration	ACGIH TWA	OSHA TWA
Hydrochloric acid	7647-01-0	<10 %	5 ppm	5 ppm
Ferric chloride	7705-08-0	<3 %	NA	NA

4. FIRST AID MEASURES

Eye Contact: Flush with clean water for 15 minutes or until irritation subsides. If irritation persists, seek medical advice.

Skin Contact: Remove contaminated clothing and launder before reuse. Wash skin with soap and water.

Ingestion: In case of this unlikely event, administer antacids (not sodium bicarbonate). Do not induce vomiting (to avoid getting material into the lungs) and obtain medical help immediately.

Inhalation: Hydrogen chloride is evolved as product dries. If an acidic odor becomes noticeable, proceed to fresh air until adequate ventilation is established.

5. FIRE-FIGHTING MEASURES

Flash point: None
Special firefighting procedures: Product contains less than 5% flammable material and is unlikely to burn. If product is heated by nearby fire or heat, vapors of hydrochloric acid will be produced and should be avoided. Granulated limestone (agricultural lime) may be used to neutralize acid runoff from containers that may be punctured or overfilled with water spray.

NFPA Flammable Liquids Classification

Health	Flammability	Reactivity
3	0	1

6. ACCIDENTAL RELEASE MEASURES

USE PERSONAL PROTECTION RECOMMENDED IN SECTION 8

Environmental precautions: For release to land, or storm water runoff, contain discharge by constructing dykes or applying inert absorbent; for release to water, utilize damming and/or water diversion to minimize the spread of contamination. Notify applicable government authority if release is reportable or could adversely affect the environment. Replace damaged containers immediately.

Clean-up methods: In case of spill, treat the area with an alkaline material like agricultural lime, carefully scoop up the result and dispose in a plastic container with hazardous waste. Lime will neutralize acid. Ventilate the area as necessary.

7. HANDLING AND STORAGE

Handling: Appropriate protective gear is recommended when handling material. Ventilation Requirements: Use with proper ventilation.

Storage: Store in a cool dry place where moisture will not collect on containers and where heat from equipment or the sun will not expose the product to temperature extremes.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

SEE SECTION 3 FOR EXPOSURE LIMITS.

Exposure controls: Contact with skin, eyes and mucous membranes can contribute to the overall exposure. Consider measures to prevent absorption by these routes.

Respiratory protection: Where ventilation is insufficient to insure low personal exposure, see Section 3 for Permissible Exposure Limit (PEL) and Time Weighted Average (TWA) and use appropriate monitoring equipment. Use of product in confined space requires breathing apparatus to prevent inhalation of hydrogen chloride which evaporates as the paste dries.

Eye protection: Use full face-shield and chemical safety goggles when there is potential for contact. Approved acid-resistant monogoggles are required.

Skin protection: Splash-proof safety goggles and chemically resistant gloves (without tears, pinholes or other signs of wear) are highly recommended to protect personnel.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Yellow
Odor:	Acidic
Boiling point/range:	100° C / 212° F
Flash point:	None
Solubility in water:	60%
Volatile Organic Content (VOC):	<90 g/L
Density:	12.2 lbs. / gal
pH:	-0.5

10. STABILITY AND REACTIVITY

Stability: Product is not subject to polymerization.

Incompatible materials: Avoid inadvertent contact with metals. The major hazard is the corrosive action of hydrogen chloride, so use and store away from materials which could be affected by exposure to corrosive vapors

Conditions to avoid: Extreme heat and cold. Environments which are not well ventilated.

11. TOXICOLOGICAL INFORMATION

The primary irritant effect is on the skin (including the eye), especially from prolonged contact. Other ingredients are diluted and present minimal hazard. The complete product has not been tested.

12. ECOLOGICAL

Can be harmful to aquatic life. Acidic soil conditions can develop with product present. Avoid product from reaching groundwater.

13. DISPOSAL CONSIDERATIONS

Recommended method of disposal: Do not dispose with residential garbage or allow product to reach ground water or sewer. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

14. TRANSPORT INFORMATION

Sold in limited quantities: 49CFR173.154, Exceptions for Class 8 (Corrosive materials). Limited Quantities may be classified as a "Consumer Commodity" ORM-D when shipping by ground transport domestically.

For all other quantities and modes of transport, the following would apply:

Proper shipping name: HYDROCHLORIC ACID SOLUTION
Hazard class or division: 8
Identification number: UN1789
Packing group: II

Product Name: Compound 302

15. REGULATORY INFORMATION

TSCA All constituents of this product are included on the TSCA inventory.

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate and are not a product specification. No warranty, either expressed or implied is made. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.