



ARCAL CHEMICALS, INC.

SAFETY DATA SHEET **Brill A**

Revised: September 3, 2015

1. IDENTIFICATION OF THE PRODUCT AND MANUFACTURER

Brill A

Arcal Chemicals, Inc.
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Capitol Heights, MD 20743

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Emergency: Chemtrec 800-424-9300

2. HAZARDS IDENTIFICATION



WARNING

Emergency Overview:

Exposure routes: Skin contact, eye contact and inhalation are possible; ingestion is unlikely because of its appearance and odor.

Eye contact: If splashed into the eyes, serious burns will occur.

Skin contact: Contact with skin will cause burns and irritation. Continued contact, as from contaminated clothing, may result in capillary blockage and gangrene.

Ingestion: Ingestion will damage oral and gastric membranes.

Inhalation: Inhalation of mist will cause nasal irritation; deeper penetration will harm the respiratory system.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Hazardous Component</u>	<u>CAS #</u>	<u>Conc.</u>	<u>OSHA PEL</u>	<u>ACGIH TWA</u>
Hydrofluoric acid	7664-39-3	<1%	3 ppm	3 ppm
Phosphoric acid	7664-38-2	<30%	2 ppm	2 ppm
Sulfuric acid	7664-93-9	<35%	50 ppm	50 ppm

4. FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Remove contact lenses, if present. Continue rinsing. Get medical attention immediately.

Skin: As quickly as possible, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately flush with lukewarm, gently flowing water for 15-20 minutes. Immediately obtain medical attention. Completely decontaminate clothing, shoes and leather goods before re-use.

Ingestion: Do not give anything by mouth if victim is unconscious or convulsing. Have victim rinse

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mouth thoroughly with water. Do not induce vomiting. If vomiting occurs naturally, have victim rinse mouth with water again. Quickly transport victim to an emergency care facility.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

5. FIRE-FIGHTING MEASURES

NFPA FIRE HAZARDS:	HEALTH	FLAMMABILITY	REACTIVITY
	4 (serious)	0 (insignificant)	2 (moderate)

6. ACCIDENTAL RELEASE MEASURES

In case Brill A is spilled, 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 precipitate the fluoride ion and neutralize the other acids. Sodium bicarbonate may also be used but produces a soluble salts which are more difficult to dispose.

7. HANDLING AND STORAGE

Store Brill A 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 AND PERSONAL 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 Brill A in confined space requires breathing apparatus to prevent inhalation of any mist thrown off during the cleaning process. Splash-proof safety goggles and chemically resistant gloves (without tears, pinholes or other signs of wear) are highly recommended to protect personnel. A waterproof apron protects against splashes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless solution

Odor: Acidic - caution; avoid breathing vapors

Density: 12.7 pounds per gallon

Boiling point: >212 F

Volatile Organic Content: (VOC): <10 g/L

Solubility in water: Completely soluble

Flash point:

10. STABILITY AND REACTIVITY

Brill A is not subject to polymerization. Brill A cleans cuprous materials with a slow etching action, but will react much more rapidly with active metals. Avoid inadvertent contact with active metals, and with any oxidizable material which could generate foam. The major hazard is the corrosive

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action of acid, so store Brill A away from materials which could be affected by exposure to corrosive vapors or mist.

11. TOXICOLOGICAL INFORMATION

The primary irritant effect of Brill A is on the skin (including the eye), especially from prolonged contact. The complete product has not been tested.

12. ECOLOGICAL INFORMATION

Do not allow liquid product to reach ground water, water course or sewer.

13. DISPOSAL CONSIDERATIONS

Waste product is hazardous (US EPA: due to fluoride and acidity). Do not dispose with residential garbage or allow product to reach ground water or sewer.

14. TRANSPORT INFORMATION

ID No.	Proper Shipping Name	Hazard Class	Packing Group
UN 2922	Corrosive Liquid, toxic, n.o.s (Hydrofluoric acid, phosphoric acid, sulfuric acid)	8 (6.1)	II

15. REGULATORY INFORMATION

TSCA: All ingredients are listed.

16: OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.