

Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: Part 2
Application: Auto Laundry
Chemical Description: Inhibited mineral acid

Manufacturer: Vaughan Industries, Inc.
Address: 8490 Lyndon Detroit, MI 48238
Emergency Phone: 313 935 2040

2. HAZARD IDENTIFICATION

GHS CLASSIFICATION: acute toxicity (3) skin corrosion (1B) combustible liquid (4) harmful if swallowed (4) may be fatal if swallowed and enters airways (1) causes skin irritation (2) causes eye irritation (2) harmful if inhaled (4) may cause respiratory irritation (3) may cause drowsiness or dizziness (3) may cause damage to organs (2) harmful to aquatic life (3)



SIGNAL WORD: Danger

HAZARD STATEMENTS: Toxic if swallowed; Causes severe skin burns and eye damage; Combustible liquid; Harmful if swallowed; May be fatal if swallowed and enters airways; Causes skin irritation; Harmful if inhaled; May cause respiratory irritation; May cause drowsiness or dizziness; May cause damage to organs; Harmful to aquatic life; Causes severe skin burns

and eye damage; Causes serious eye damage; May cause cancer; Harmful to aquatic life
PRECAUTION STATEMENTS: Do not breathe dust; Wear protective gloves/protective clothing/eye protection/face protection; If swallowed: Rinse mouth. Do not induce vomiting; If on skin: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower; If in eyes: Rinse cautiously with water for several minutes; Remove contact lenses if present and easy to do—continue rinsing; If exposed or you feel unwell: Call a poison center or doctor/physician; Do not breathe dust/fume/gas/mist/vapor/spray; Wash with soap and water thoroughly after using this product; Use only outdoors or in well ventilated area; If swallowed: Call a poison center or doctor/physician if you feel unwell; If on skin: Wash with soap and water; If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing; If skin irritation occurs: Get medical advice/attention; If eye irritation persists: get medical advice/attention; Wash contaminated clothing before reuse; Store locked up; Rinse mouth

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	Wt %
Sulfuric acid	7664-93-9	10-30
Ammonium bifluoride	1341-49-7	1-25
2-Butoxyethanol	111-76-2	1-15

4. FIRST AID PROCEDURES

EYES: Flush with large amounts of water. Seek medical attention.
SKIN: Wash with water. Soak with a 0.13% solution of Zephirin chloride. (Do not use around eyes.)
Seek medical help.
RESPIRATORY: Move to fresh air. If necessary, give oxygen and seek medical attention.
INGENSTION: Consult a physician. Do not induce vomiting. If conscious, give plenty of water.

5. FIRE HAZARD DATA

EXTINGUISHING MEDIA: Any ordinary
SPECIAL FIREFIGHTING PROCEDURE: None

6. ACCIDENTAL RELEASE MEASURES

ACTION FOR SPILLS: Collect as much as possible for reuse. Place remainder in suitable container for disposal.

7. HANDLING AND STORAGE

VENTILATION: Equivalent to outside
RESPIRATORY PROTECTION: Normally not required
EYE PROTECTION: Safety glasses or goggles are always recommended
GLOVES: Plastic or rubber as used for washing
PROTECTIVE CLOTHING: Clean work clothes
STORAGE: Store in a dry area at temperatures above freezing. Use chemical goggles and gloves when transferring concentrates.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

EXPOSURE LIMITS: Ingredient 1, OSHA PEL 1 mg/m³, Ingredient 2, EU 2.5 mg/m³ Ingredient 3, TWA 50 ppm
ENGINEERING CONTROLS: Use with adequate ventilation. Ensure eye wash and safety shower stations are available near areas where product is used.

PERSONAL PROTECTION EQUIPMENT: Safety glasses must be worn. Maintain eye wash facilities in the work area. Wear gloves impervious to conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, colorless liquid
ODOR THRESHOLD: n/m pH: 2 - 3
INITIAL BOILING POINT AND RANGE: 212 °F
RELATIVE DENSITY: 1.12 - 1.14 SOLUBILITY IN WATER: miscible
FLASH POINT: none FLAMMABILITY: n/a
VAPOR PRESSURE: n/m VAPOR DENSITY: Heavier than air
EVAPORATION RATE: Slower than butyl acetate

ODOR: Acid odor
VISCOSITY: n/m
MELTING/FREEZING PT: n/m
PARTITION COEFF: n-octanol/water: n/m
AUTOIGNITION TEMPERATURE: n/m
FLAMMABLE LIMITS: LFL: n/m UFL: n/m
DECOMPOSITION TEMPERATURE: n/m

10. STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY: Strong oxidizers and strong bases

11. TOXICOLOGICAL INFORMATION

THRESHOLD LIMIT VALUE: Ingredients #1, 0.25 ppm; Ingredient #2, ACGHI TLB-TWA 2.5 mg/m³ for fluoride; Ingredient #3, 25 ppm
PRECAUTIONARY STATEMENT: May cause eye and skin irritation
EYE CONTACT: May cause eye damage
SKIN CONTACT: May cause delayed burns with no noticeable pain. Can be absorbed through the skin. Can cause hypocalcemia.
RESPIRATORY: Can lead to inflammation of the respiratory tract and chemical pneumonia.
INGESTION: Can cause gastro-intestinal burns. May also cause kidney dysfunction. Can be fatal if inhaled or ingested. Chronic effects of overexposure: repeated or prolonged contact with vapors may cause nasal ulceration or infection of the bronchial tract and eyes. In extreme cases, hypocalcemia, too erosion and bone or joint destruction can occur.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: none known
INGREDIENTS LIST AS CARCINOGEN: inadequate evidence of carcinogenicity; no mutagen or reproductive toxicity

12. ECOLOGICAL INFORMATION

All work practices must be aimed at eliminating environmental contamination.
ENVIRONMENTAL FATE: Bioaccumulation is not expected to be significant.
ECOLOGICAL DATA: Ingredient 1, fish, 96 h, LC50, > 500 mg/L daphnia, 24 h, EC50, 29 mg/L
Ingredient 2, fish: 96 h, LC50, 107.5 ppm Algae: 96 h, IC50, 43 mg/L daphnia: 48 h, EC50, 97 mg/L
Ingredient 3, fish: 96 h, 1250 ppm

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

US DEPARTMENT OF TRANSPORTATION
Proper Shipping Name: Sulfuric acid and hydrofluoric acid mixture
UN/NA Number: NA 1786
Labels Required: Corrosive
Hazard Class: 8
Packing Group: III

15. REGULATORY INFORMATION

SARA 313: 2-Butoxyethanol
US CERCLA REPORTABLE QUANTITY: none
US TSCA INVENTORY STATUS: The components of this product are TSCA listed.
OTHER US FEDERAL REGULATIONS: none

16. OTHER INFORMATION

The data and recommendations presented herein are based upon our research and that of others and are believed to be accurate. No guarantee of their accuracy is made, and they are distributed without warranty, express or implied. The person receiving them shall make their own determination of the suitability thereof for their particular purpose.
n/a: not available n/m: not measured

Date of Preparation: 4-21-15 AD

Revision Number: 3