

Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: **A-1**
Application: Auto Laundry
Chemical Description: Formulated acid detergent

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

2. HAZARD IDENTIFICATION

GHS CLASSIFICATION: acute toxicity, oral (4) skin corrosion/irritation (1) serious eye damage/eye irritation (1) acute toxicity, inhalation (4) metal corrosion (1) combustible liquid (4) harmful if swallowed (4) may be fatal if swallowed and enters airways (1) 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: May be corrosive to metals; Causes severe skin burns and eye damage; Harmful if inhaled; Combustible liquid; Harmful if swallowed; May be fatal if swallowed and enters airways; May cause drowsiness or dizziness; May cause damage to organs; Harmful to aquatic life

PRECAUTION STATEMENTS: Do not eat, drink or smoke when using this product; Keep only in original container; Do not breathe dust/fume/gas/mist/vapors/spray; Do not get in eyes, on skin, or on clothing; Wash hands thoroughly after handling; Wear protective gloves/protective clothing/eye protection; If swallowed: Rinse mouth. Do not induce vomiting; If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower; If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing; If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing; Wash contaminated clothing before reuse; Store in a closed container; Store locked up; Dispose of contents/container to appropriate waste site or reclaimer in accordance with local and national regulations; Use only outdoors or in a well ventilated area; [In case of inadequate ventilation] wear respiratory protection; Absorb spillage to prevent material damage; Store in a well ventilated place. Keep container tightly closed; Store in corrosive resistant container with a resistant inner liner; If swallowed: Call a poison center or doctor/physician if you feel unwell; If exposed or you feel unwell: Call a poison center or doctor/physician; Rinse mouth; If skin irritation occurs: Get medical advice/attention; If eye irritation persists: get medical advice/attention; Use only in a hood or well ventilated area

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	Wt%
Hydrochloric acid	7647-01-0	10-25
Alkylbenzenesulfonic acid	27176-87-0	1-15
Surfactant blend	mixture	1-10
2-Butoxyethanol	111-76-2	1-10

4. FIRST AID PROCEDURES

EYES: Flush with large amounts of water. Seek medical attention.
SKIN: Wash with water. If irritation persists, seek medical help.
RESPIRATORY: Move to fresh air. If necessary, give oxygen and seek medical attention.
INGESTION: Rinse mouth with water. Drink 1 – 2 large glasses of water. Do not induce vomiting. Consult a physician.

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 dry area at temperatures above freezing. Use chemical goggles and gloves when transferring concentrates

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: Ingredient 1: OSHA ceiling 5 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, red liquid	ODOR: distinct	ODOR THRESHOLD: n/m
pH: < 1.5 @ 10%	VISCOSITY: n/m	RELATIVE DENSITY: 1.04-1.14
INITIAL BOILING POINT AND RANGE: 212 °F		MELTING/FREEZING PT: n/m
SOLUBILITY IN WATER: miscible	PARTITION COEFF: n-octanol/water: n/m	
VAPOR PRESSURE: n/m	VAPOR DENSITY: Heavier than air	
FLASH POINT: none	FLAMMABLE LIMITS: LFL: n/m UFL: n/m	
AUTOIGNITION TEMPERATURE: n/m	DECOMPOSITION TEMPERATURE: n/m	
EVAPORATION RATE: Slower than butyl acetate		

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

THRESHOLD LIMIT VALUE: Ingredient 2, ACGIH TLV 2 ppm; Ingredient 3, TLV 25 ppm
PRECAUTIONARY STATEMENT: Will cause eye and skin irritation.
EYE CONTACT: Will cause eye damage
SKIN CONTACT: Prolonged contact will cause irritation
RESPIRATORY: Will cause irritation if aerosolized
INGESTION: Will cause gastrointestinal irritation
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known
INGREDIENTS LIST AS CARCINOGEN: None listed

12. ECOLOGICAL INFORMATION

All work practices must be aimed at eliminating environmental contamination.
ENVIRONMENTAL FATE: Bioaccumulation is not expected to be significant. This product is made from biodegradable components.
ECOLOGICAL DATA: Ingredient 2 (pure substance): fish, 96 h, LC50, 138 mg/L; Ingredient 3: fish, 96 h, 1250 ppm; Ingredient 4: fish, 96 h, LC50, 10 mg/L

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: Compounds, cleaning liquid Hazard Class: 8 Packing Group: III
UN/NA Number: NA 1760 Labels Required: Corrosive

15. REGULATORY INFORMATION

SARA Title III Section 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
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