

Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: **TC-231**

Application: Auto Laundry

Chemical Description: Blended detergent product

Manufacturer: Vaughan Industries, Inc.

Address: 8490 Lyndon Detroit, MI 48238

Emergency Phone: 313 935 2040

2. HAZARD IDENTIFICATION

GHS CLASSIFICATION: combustible liquid (4) harmful if swallowed (4) may be fatal if swallowed and enters airways (1) may cause drowsiness or dizziness (3) may cause damage to organs (2) harmful to aquatic life (3) serious eye damage (1) skin corrosion/irritation (2) acute toxicity, inhalation (4) specific target organ toxicity, single exposure (3) RTI specific target organ toxicity, single exposure (2) specific target organ toxicity, repeated exposure (1) metal corrosion (1)



SIGNAL WORD: Danger

HAZARD STATEMENTS: Combustible liquid; Harmful if swallowed; May be fatal if swallowed and enters airways; May cause respiratory irritation; May cause drowsiness or dizziness; Harmful to aquatic life; Causes serious eye damage; Causes damage to

organs through prolonged or repeated exposure; Causes severe skin burns and eye damage; May be corrosive to metals

PRECAUTION STATEMENTS: Do not get in eyes, on skin, or on clothing; Wear protective gloves/protective clothing/eye protection/face protection; 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 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; Rinse mouth; If skin irritation occurs: Get medical advice/attention; If eye irritation persists: get medical advice/attention; Wash contaminated clothing before reuse; Store locked up; Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking; Ground/bond container and receiving equipment; Use explosion proof electrical/ventilating/lighting equipment; Use only non sparking tools; Take precautionary measures against static discharge; Do not eat, drink or smoke when using this product; If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower; Do not induce vomiting; In case of fire: Use appropriate method to extinguish; Keep in a well ventilated place. Keep container tightly closed; Dispose of contents/container in accordance with local/regional/national/international regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	Wt%
Sodium metasilicate	6834-92-0	1-10
Cocamidopropylamine oxide	68155-84-1	1-10
2-Butoxyethanol	111-76-2	1-5
Surfactant	mixture	1-5
Petroleum distillate	8008-20-6	1-5
Light aromatic solvent naphtha	64742-95-6	1-5

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: n/m

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: solvent

ODOR THRESHOLD: n/m

pH: > 13

VISCOSITY: n/m

RELATIVE DENSITY: 0.98 – 1.08

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: n/m

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

11. TOXICOLOGICAL INFORMATION

THRESHOLD LIMIT VALUE: Ingredient 2; TLV 25 ppm; Ingredient 4; 5 mg/m³ in air as oil mist

PRECAUTIONARY STATEMENT: May cause eye and skin irritation

EYE CONTACT: May cause eye damage

SKIN CONTACT: Prolonged contact can cause irritation

RESPIRATORY: Aerosols can be irritating

INGESTION: May 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 1: Fish, 96 h, LC50, 210 mg/L; Daphnia, 48 h, EC50, 1700 mg/L

Ingredient 2: Fish, 96 h, 1250 ppm; Ingredient 3: Minnow, 96 h, 10-20 mg/L; Algae, 96 h, EC50, 1-5 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: n/a

Hazard Class: n/a

UN/NA Number: n/a

Packing Group: n/a

Labels Required: None

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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