



Material Safety Data Sheet

Valent Tank Cleaner

Page 1 of 6

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Valent Tank Cleaner
VC NUMBER(S): None
ITEM: 87995
EPA REGISTRATION NUMBER: Not applicable

DISTRIBUTOR
VALENT USA Corporation
P.O. Box 8025
1600 Riviera Avenue, Suite 200
Walnut Creek, CA 94596-8025

EMERGENCY TELEPHONE NUMBERS
HEALTH EMERGENCY OR SPILL (24 hr):
(800) 892-0099
TRANSPORTATION (24 hr.): CHEMTREC
(800) 424-9300 or (202) 483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight/ Percent	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Sodium hydroxide (1310-73-2)	15 - 30	2 mg/m ³ Ceiling	2 mg/m ³ TWA	See regulated exposure limits

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER

- To be used only under the direct supervision of a technically qualified individual.
- Corrosive.
- Causes irreversible eye damage.
- Causes skin burns.
- Do not get in eyes, on skin or on clothing.
- Keep out of reach of children.

POTENTIAL HEALTH EFFECTS

Emergency Telephone: (800) 892-0099
REVISION NUMBER: 1

MSDS NO.: 0404
REVISION DATE: 02/20/2007

Acute Toxicity (Primary Routes of Exposure)**Signs and Symptoms of Systemic Effects:** No Data Available**Acute Eye Contact:** This product is corrosive to eyes. The expected adverse health effects resulting from an exposure may include redness, swelling and pain which could last for an extended period of time or possibly irreversible eye damage and blindness.**Acute Skin Contact:** This product is corrosive to skin. The expected adverse health effects resulting from an exposure may include redness, swelling and pain for an extended period of time and irreversible tissue damage.**Acute Ingestion:** Ingestion of this product may cause gastrointestinal irritation.**Acute Inhalation:** Exposure to high concentrations in the air may result in respiratory irritation. Signs and symptoms may include, but not be limited to, nasal discharge, sore throat, coughing and difficulty in breathing.**Potentially Aggravated Medical Conditions:** None known

For complete discussion of the toxicology data from which this evaluation was made, refer to Section 11. For Regulatory Information, refer to Section 15.

4. FIRST AID MEASURES**EYE CONTACT:**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN CONTACT:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION:

Wash out mouth with water. Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN:

None

5. FIRE FIGHTING MEASURES

FLASH POINT: > 149°F (> 65°C)
AUTOIGNITION: No data available
EXTINGUISHING MEDIA: Water fog, carbon dioxide, foam, dry chemical

FLAMMABLE LIMITS IN AIR - LOWER (%): Not applicable
FLAMMABLE LIMITS IN AIR - UPPER (%): Not applicable

NFPA RATING:

Health: 4
Flammability: 2
Reactivity: 0
Special: None

Emergency Telephone: (800) 892-0099
REVISION NUMBER: 1

MSDS NO.: 0404
REVISION DATE: 02/20/2007

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

FIRE FIGHTING INSTRUCTIONS: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

HAZARDOUS COMBUSTION PRODUCTS: Emits toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION

Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. For additional spill response information refer to the North American Emergency Response Guidebook.

FOR SPILLS ON LAND:

CONTAINMENT: Avoid runoff into storm sewers and ditches which lead to waterways. Contain spilled liquids with dry sorbents.

CLEANUP: Clean up spill immediately. Absorb spill with inert material (such as dry sand or earth), then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

FOR SPILLS IN WATER:

CONTAINMENT: This material is water soluble. Stop or reduce contamination of any water. Isolate contaminated water.

CLEANUP: Clean up spill immediately. Absorb spill with inert material. Remove contaminated water for treatment or disposal.

7. HANDLING AND STORAGE

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space.

Store in a cool, well-ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep only in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

EYES: Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

RESPIRATORY PROTECTION: Use this material only in well ventilated areas. Unless ventilation is adequate to keep airborne concentrations below recommended exposure standards, approved respiratory protection should be worn.

SKIN PROTECTION: Causes skin burns. When handling this material, wear impervious protective clothing, which should include chemical resistant gloves, apron, overshoes and complete facial protection.

ENGINEERING CONTROLS: Use in a well ventilated area.

Emergency Telephone: (800) 892-0099
REVISION NUMBER: 1

MSDS NO.: 0404
REVISION DATE: 02/20/2007

EXPOSURE LIMITS - See Section 2.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Straw
ODOR:	Barely perceptible odor
MELTING POINT:	Not applicable
BOILING POINT:	No data available
DENSITY:	1.235±0.01
VAPOR PRESSURE:	Not applicable
pH:	13±1
VISCOSITY:	Non-viscous
SOLUBILITY:	Soluble in water.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable at normal ambient temperatures.
OXIDATION/REDUCTION PROPERTIES:	No data available
EXPLODABILITY:	Not expected to be explosive.
HAZARDOUS DECOMPOSITION PRODUCTS:	In combustion emits toxic fumes
MATERIALS TO AVOID:	Strong oxidizing agents and acids
CONDITIONS TO AVOID:	High temperatures

11. TOXICOLOGICAL INFORMATION

ACUTE (Product Specific Information):

Eye Irritation:	This product produced prolonged or significant eye irritation or irreversible eye damage in tests animals. (Toxicity Category I)
Skin Irritation:	This product was corrosive to skin in tests with animals. (Toxicity Category I)
Oral Toxicity:	This product is a gastrointestinal irritant may cause burns if swallowed.
Dermal Toxicity:	No data available
Inhalation Toxicity:	This product may be a respiratory irritant.
Skin Sensitization:	No data available

CHRONIC/CARCINOGENICITY: No data available

DEVELOPMENTAL TOXICITY: No data available

REPRODUCTION: No data available

MUTAGENICITY: No data available

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 3. For information regarding regulations pertaining to this product, refer to Section 15.

12. ECOLOGICAL INFORMATION

Emergency Telephone: (800) 892-0099
 REVISION NUMBER: 1

MSDS NO.: 0404
 REVISION DATE: 02/20/2007

12. ECOLOGICAL INFORMATION

Mobility: Readily absorbed into soil.
 Persistence and Degradation: Biodegradable.
 Bioaccumulation Potential: No bioaccumulation potential.
 Other Adverse Effects: Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

DISPOSAL METHODS: Check government regulations and local authorities for approved disposal of this material. Dispose in accordance with applicable laws and regulations.

14. TRANSPORT INFORMATION

DOT (ground) SHIPPING NAME: Sodium Hydroxide Solution
DOT REPORTABLE QUANTITY (RQ): 323 gallons (Sodium Hydroxide RQ=1000 lbs)
UN/NA NUMBER: UN 1824
HAZARD CLASS: 8
PACKING GROUP: II
REMARKS: Less than 1.0 L - see 49CFR 172.203(b) and 173.154
EXEMPTION REQUIREMENT: None

15. REGULATORY INFORMATION

REGULATIONS UNDER FIFRA: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

OTHER U.S. FEDERAL REGULATIONS:

Chemical Name	RCRA - U Series Wastes	Clean Water Act - Hazardous Substances	Clean Water Act Section 307
Sodium hydroxide (1310-73-2)	None	Listed	Not listed

CWA Section 311: No data

Chemical Name	SARA 313 Chemicals	SARA Section 302	CERCLA Reportable Quantity (RQ):
Sodium hydroxide (1310-73-2)	Not listed	Not listed	1000 lb 454 kg

Product Reportable Quantity (RQ): 323 gallons

SARA (311, 312):

Immediate Health: Yes
 Chronic Health: Yes
 Fire: Yes
 Sudden Pressure: No
 Reactivity: No

Emergency Telephone: (800) 892-0099
REVISION NUMBER: 1

MSDS NO.: 0404
REVISION DATE: 02/20/2007

Chemical Name	IARC - Group 1 (carcinogenic to humans)	IARC - Group 2A (Probably carcinogenic)	IARC - Group 2B (Possibly carcinogenic)	NTP Carcinogen List
Sodium hydroxide (1310-73-2)	No	No	No	Not listed

STATE REGULATIONS:

Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities. The state regulations reviewed include: California Proposition 65, California Directors List of Hazardous Substances, Massachusetts Right to Know, Michigan Critical Materials List, New Jersey Right to Know, Pennsylvania Right to Know, Rhode Island Right to Know and the Minnesota Hazardous Substance list. For Washington State Right to Know, see Section 2 for Exposure Limit information. For Louisiana Right to Know refer to SARA information listed under U.S. Regulations above.

Chemical Name	California Proposition 65	California - Directors List of Hazardous Substances
Sodium hydroxide (1310-73-2)	Not listed	Listed

Chemical Name	MI - Critical Materials List	MA Right To Know	NJ Right To Know
Sodium hydroxide (1310-73-2)	Not listed	Listed	Listed

Chemical Name	PA Right To Know	RI Right To Know	MN Hazardous Substance
Sodium hydroxide (1310-73-2)	Listed	Listed	Listed

California Proposition 65: Not listed

CANADIAN REGULATIONS:

WHMIS Hazard Class: Not determined

For information regarding potential adverse health effects from exposure to this product, refer to Sections 3 and 11.

16. OTHER INFORMATION

REASON FOR ISSUE: New Product
MSDS NO.: 0404
REVISION NUMBER: 1
REVISION DATE: 02/20/2007
SUPERCEDES DATE: None

THE INFORMATION IN THIS MSDS IS BASED ON DATA AVAILABLE TO US AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT VALENT USA CORPORATION TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS.

JUDGEMENTS AS TO THE SUITABILITY OF INFORMATION HEREIN FOR THE INDIVIDUAL'S OWN USE OR PURPOSES ARE NECESSARILY THE INDIVIDUAL'S OWN RESPONSIBILITY. ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF SUCH INFORMATION, VALENT USA CORPORATION EXTENDS NO WARRANTIES, MAKES NO REPRESENTATIONS, AND ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR SUITABILITY OF SUCH INFORMATION FOR APPLICATION TO THE INDIVIDUAL'S PURPOSES OR THE CONSEQUENCES OF ITS USE.

Emergency Telephone: (800) 892-0099
REVISION NUMBER: 1

MSDS NO.: 0404
REVISION DATE: 02/20/2007