

SDS# Triple-D
Date: March 2015

Triple-D®

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Triple-D
Catalog Number: Triple-D
Manufactured by: DiversiTech Corporation
6650 Sugarloaf Parkway
Duluth, GA, 30097
Information Phone No.: 1+678.542.3600
EMERGENCY Phone No.: 1 800.255.3924 Chem-Tel (Chemical Emergencies)
SDS DATE REVISED: 03/10/2015
PREPARED BY: V. Leone

SECTION 2. HAZARDOUS INGREDIENTS INFORMATION

GHS Classification:

Skin Irritation Category 1A
Eye Irritation Category 1
Carcinogen Category 2
Specific Target Organ Toxicity- Single Exposure Category 3
Specific Target Organ Toxicity- Repeat Exposure Category 2

Label Elements:



Signal Word Danger!

Hazard Statement(s)

H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P102 Keep out of reach of children.
P103 Read label before use.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P232 Protect from moisture.
P233 Keep container tightly closed.
P235 Keep cool.
P260 Do not breathe the mist or spray.
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash thoroughly after handling.
P280 Wear rubber, nitrile or neoprene protective gloves and clothing, and safety goggles or face shield to protect eyes and face.
P285 In case of inadequate ventilation wear respiratory protection.
P308 IF exposed or concerned: Consult medical advice or attention

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SECTION 2. HAZARDOUS INGREDIENTS INFORMATION (cont.)

P309	IF you feel unwell: Consult medical advice or attention
P301	IF SWALLOWED: Immediately drink 3 or 4 glasses of water followed by a large glass of citrus juice. Do not induce vomiting. Call a physician immediately.
P302	IF ON SKIN: Flush affected area with water for 15 minutes or until skin no longer feels slick. If irritation persists or burns are present, consult a physician.
P304	IF INHALED: Remove person to fresh air. If unconscious or if breathing does not return to normal within a few minutes, contact a physician immediately.
P305	IF IN EYES: Flush eyes with running water for at least 15 minutes while lifting lids periodically. Call a physician without delay.
P402	Store in a dry place.
P403	Store in a well-ventilated place.
P501	Treat empty containers as hazardous. Dispose of spill clean up and other wastes in accordance with Federal, State, and local regulations. Consign any recovered product not suitable for reuse or recycling to an appropriate and approved waste treatment or disposal facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

HMIS III Ratings

HMIS III®

Health	3
Flamability	0
Physical Hazard	1
Personal Protection	I

SECTION 3. HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS No.	EINECS No.	% or Range	GHS Classification
Water	7732-18-5	231-791-2	60-80	Not classified
Potassium hydroxide	1310-58-3	215-181-3	10-20	H314: Acute Toxicity Category 4 H314: Skin Corrosion Category 1A H318: Eye Damage Category 1 H402: Aquatic Acute Category 3
Sodium silicate	1344-09-8	215-687-4	10-20	H314: Causes severe skin burns and eye damage H335: May cause respiratory irrit. Category 3
Metanil Yellow Dye	587-98-4	208-407-7	< 0.01	H515: Skin Irritant Category 3 H319: Eye Irritant Category 2B

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SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

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

Ingestion: DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Wash with soap and water. Rinse with copious amounts of fresh, running water. If irritation persists, get medical attention.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician: Perform endoscopy in all cases of suspected sodium hydroxide ingestion. In cases of severe esophageal corrosion, consider the use of therapeutic doses of steroids. General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.

4.2. Signs and Symptoms of Exposure:

Inhalation: Effects from inhalation of mist and may cause serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may vary from mild to severe irritation, sneezing, sore throat or runny nose. Severe pneumonitis may occur.

Ingestion: Symptoms may include burns of mouth, throat, and stomach bleeding, vomiting, diarrhea, fall in blood pressure.

Skin Contact: Contact with skin can cause redness, irritation or severe burns and scarring with greater exposures.

Eye Contact: Contact with mist, spray or liquid causes redness, severe irritation or burning in eyes. Prolonged exposures can cause burns that may result in permanent impairment of vision, even blindness.

Chronic Exposure: Prolonged contact with dilute solutions or mists has a destructive effect upon tissue.

SECTION 5. FIREFIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Equipment and Precautions for Fire-Fighters:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment and clothing during clean-up.

Methods and Material for Containment and Clean-Up: Contain and recover liquid when possible. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, then neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal. Do not use aluminum tools to collect absorbed material or aluminum containers to store collected waste. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities (700 gallons) of this product. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. Remove contaminated clothing immediately.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling: Keep in a tightly closed container. Protect from physical damage. Keep this and all chemicals out of the reach of children. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatible materials. Store above 16C (60F) to prevent freezing. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid). Containers of this material may be hazardous when empty since they retain product residues. Do not store with aluminum or magnesium. Do not mix with acids or organic materials.

Observe all warnings and precautions listed for the product.

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits:

Potassium Hydroxide:

OSHA Permissible Exposure Limit (PEL): 2ppm

ACGIH Threshold Limit Value (TLV): 2ppm

Appropriate Engineering Controls:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.



Skin Protection: Wear rubber, neoprene, nitrile, Saranex[®] boots, gloves, lab coat, apron or coveralls, as necessary and appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities or a source of running water in the work area.

Work Hygienic Practices: Use proper industrial hygiene practices to minimize hazardous exposure.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear orange liquid

Odor: Lavender

Odor Threshold: Not established

pH @ 25°C: >13

Melting Point (Pour Point) : <0 °C (32°F)

Boiling Point : >100°C (212°F)

Flash Point: Not established

Evaporation Rate (Water = 1): 1

Flammable Limits: Not applicable

LEL: N/A

UEL: N/A

Vapor pressure (mm Hg): Not applicable

Vapor Density (Air = 1): Same as water

Relative density: 1.125

Specific gravity (H₂O = 1): 1.190

Solubility in water: Water miscible

Octanol/Water Partition Coefficient: Not available

Autoignition Temperature: Not available

Decomposition Temperature: Not available

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under ordinary conditions of use and storage.

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: Extreme heat, incompatibles.

Incompatible Materials: Potassium hydroxide in contact with acids and organic halogen compounds, especially trichloroethylene, may causes violent reactions. Contact with metals such as aluminum, magnesium, tin, and zinc may cause formation of flammable hydrogen gas.

Hazardous Decomposition Products: Reaction with non-ferrous metals releases flammable and explosive hydrogen gas.

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SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Inhalation: Effects from inhalation of mist and may cause serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may vary from mild to severe irritation, sneezing, sore throat or runny nose. Severe pneumonitis may occur.

Ingestion: Symptoms may include burns of mouth, throat, and stomach bleeding, vomiting, diarrhea, fall in blood pressure.

Skin Contact: Contact with skin can cause redness, irritation or severe burns and scarring with greater exposures.

Eye Contact: Contact with mist, spray or liquid causes redness, severe irritation or burning in eyes. Prolonged exposures can cause burns that may result in permanent impairment of vision, even blindness.

Chronic Exposure: Prolonged contact with dilute solutions or mists has a destructive effect upon tissue.

Carcinogenic effects: Not classified

Teratogenicity/Reproductive toxicity: Not classified

Mutagenic effects: Not classified

Numerical Measures of Toxicity:

Potassium hydroxide: 365 mg/kg oral-rat LD50;

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Potassium hydroxide: TLM: 80ppm/Mosquito fish/24 hr. /fresh water

Sodium Silicate: The following data is reported for sodium silicates on a 100% solids basis:
96-hour median tolerance for fish (*Gambusia affinis*) of 2320ppm
96-hour median tolerance for water fleas (*Daphnia magna*) of 247ppm
96-hour median tolerance for snail eggs (*Lymnea*) of 632ppm
96-hour median tolerance for Amphipoda of 160ppm

Aquatic: This product is toxic to Aquatic Life. Toxicity is primarily associated with pH.

Persistence and Degradability: Diluted material rapidly depolymerizes to yield dissolved silica in a form that is indistinguishable from natural dissolved silica. This material is inorganic and not subject to biodegradation.

Bioaccumulative Potential: No data available

Mobility in Soil: No data available.

Other Adverse Effects: None known

Other: For more information, see "*HANDBOOK OF ENVIRONMENTAL FATE AND EXPOSURE DATA.*"

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of spill clean-up and other wastes in accordance with Federal, State, and local regulations. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Treat empty containers as hazardous. Dispose of container and unused contents in accordance with federal, state and local requirements. **RCRA Hazard Class (if discarded):** CORROSIVE D002.

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SECTION 14. TRANSPORTATION INFORMATION

US DOT: Corrosive liquid, basic, inorganic, N.O.S. (contains sodium hydroxide), 8, UN3266, PGII

International (Water, I.M.O.)

DOT Proper Shipping Name: Corrosive liquid, basic inorganic, N.O.S. (contains potassium hydroxide)

DOT Hazard Class: 8

UN Number: UN3266

Packing Group: II

Limited Quantity: No

Marine Pollutant: No

ADR/RID Class: 8

ADR/RID Packing Group: II

IMDG Hazard Class: 8

IMDG Packing Group: II

ADNR Class: 8

ADNR Item: 8

IATA Hazard Class: 8

IATA Packing Group: II

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15. REGULATORY INFORMATION

Federal, State & International Regulations

U.S. REGULATIONS:

U.S. INVENTORY (TSCA): All components are listed on or are exempt from the inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES: 1000 LBS RQ (potassium hydroxide)

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES):

ACUTE: Yes; **CHRONIC:** No; **FIRE:** No; **REACTIVE:** No; **SUDDEN RELEASE of Pressure:** No

SARA TITLE III SECTION 313: Not regulated.

OSHA PROCESS SAFETY: Not regulated.

STATE REGULATIONS:

California Proposition 65: Not regulated.

NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW:

Reporting Requirement: Potassium hydroxide (1310-58-3) 10-20%

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SECTION 15. REGULATORY INFORMATION (cont.)

Right To Know Hazardous Substance List: Potassium hydroxide (1310-58-3) 10-20%

Special Health Hazard Substance List: Potassium hydroxide (1310-58-3) 10-20%

PENNSYLVANIA RIGHT TO KNOW:

Reporting Requirement: Potassium Hydroxide (1310-58-3) 10-20%

Hazardous Substance List: Potassium hydroxide (1310-58-3) 10-20%

ENVIRONMENTAL HAZARDOUS SUBSTANCE LIST: Potassium hydroxide (1310-58-3) 10-20%

SPECIAL HAZARDOUS SUBSTANCE LIST: Not regulated.

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: E.

CANADA INVENTORY (DSL/NDSL): All components of this product are listed on the DSL.

Australian Hazchem Code: 2R

Poison Schedule: Not scheduled

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION:

Revision Summary: All Sections: New GHS Format

This information is, to the best of our knowledge and belief, accurate and reliable as of the date completed. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the completeness and suitability of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against patent infringement.