



VALTECH

MSDS

Material Safety Data Sheet

VALTRON® MD6000 High Alkaline Detergent

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identity VALTRON MD6000 High Alkaline Detergent

Manufacturer..... Valtech Corporation

Address..... 2113 Sanatoga Station Road, Pottstown, PA 19464 USA

Telephone Number..... 610-705-5900

IN CASE OF EMERGENCY CALL CHEMTREC 800-424-9300 24 hours everyday. Outside U.S., call collect 703-741-6009.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical and Common Name	CAS Registry Number	Percent	OSHA PEL	ACGIH TLV
Potassium Hydroxide; Caustic Potash	1310-58-3	21%	Not established	2mg/m3 Ceiling limit
Tetrasodium ethylene diamine tetraacetate; EDTA	64-02-8	Trade secret	Not established	Not established
Nonionic surfactant	Trade secret	Trade secret	Not established	Not established
Water	7732-18-5	Trade secret	Not established	Not established

3. HAZARDS IDENTIFICATION

Emergency OverviewDark amber liquid. Slight odor. Corrosive. Causes burns to eyes, skin, and digestive tract. Spray mist causes burns to respiratory tract. Reacts with acids, ammonium salts, and some metals and organics.

Eye ContactCORROSIVE—Causes eye burns

Skin ContactCORROSIVE—Causes skin burns

InhalationCORROSIVE—Inhalation of spray mist causes burns to respiratory tract.

Ingestion.....CORROSIVE—Ingestion causes burns to mouth and digestive tract.

Chronic Hazards.....No known chronic hazards. Not listed by OSHA, NTP or IARC as a carcinogen.

Signs and Symptoms

of ExposurePain, redness and tearing (eye exposure). Redness, soapy feel, skin cracks or burning (skin exposure). Sneezing, coughing, difficult breathing, burning or itching in nose and throat (inhalation). Burning sensation in mouth, abdominal pain, diarrhea, breathing difficulty, pallor, weak, slow pulse, shock (ingestion).

Medical Conditions

Aggravated by Exposure.....Pre-existing skin and eye conditions.

4. FIRST AID MEASURES

Eyes.....In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if worn. Get medical attention immediately.

SkinIn case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Ingestion.....If swallowed, DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Inhalation.....If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

5. FIRE FIGHTING MEASURES

Flash Point.....This material is not combustible.

Flammable LimitsNot Applicable.

Fire Extinguishing Media.....Compatible with dry chemical, water spray, and regular foam.

Special Fire Fighting

ProceduresEye and skin protection is required for all fire fighting personnel.

Unusual Fire and Explosion

Hazards.....Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead, and zinc.

HMIS Ratings

Health	3
Flammability	0
Reactivity	1

6. ACCIDENTAL RELEASE MEASURES

Small SpillAbsorb spill with an inert material (e.g., dry sand or earth), then place in a chemical waste container.

Large SpillContain spilled liquid with sand or earth. Transfer absorbed material into drums. Prevent runoff from entering into storm sewers and ditches which lead to natural waterways.

7. HANDLING AND STORAGE

HandlingDo not get in eyes, on skin, on clothing. Avoid breathing mist. Keep container closed. Wash thoroughly after handling.

Storage.....Store in a cool, well ventilated place away from incompatible materials. (See Stability and Reactivity Section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls.....Local and general ventilation sufficient to maintain exposures below the permissible exposure limits. Eyewash and safety showers should be within direct access.

Eye Protection.....Use splash-proof chemical goggles. Contact lenses should not be worn when working with this material.

Skin ProtectionUse neoprene gloves, coveralls, and an apron.

Respiratory Protection.....Use NIOSH-certified respirator for mist where spray mist occurs. Observe OSHA regulations for respirator use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance & OdorDark amber liquid; Slight odor

Specific Gravity1.253 \pm 0.005

Solubility in Water.....Complete

pH (concentrate).....>13.5

(1% dilution).....12.3

10. STABILITY AND REACTIVITY

StabilityStable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to AvoidAvoid contact with incompatible materials.

Incompatible Materials.....Materials which react with aqueous strong bases including acids, aldehydes, ammonium salts, anhydrides, bromine, chlorinated organics, glycols, epoxides, hydrides, nitrates, peroxides, phosphorus, and tetrahydrofuran.

Hazardous Decomposition

Products.....Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead, and zinc.

Hazardous Polymerization.....Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute DataThe reported oral rat LD₅₀ value for potassium hydroxide is 273 mg/kg. Potassium hydroxide is reported to cause severe irritation to human,

rabbit, and guinea pig skin at a dosage of 50 mg for 24 hours. Potassium hydroxide is reported to cause moderate irritation to a rabbit eye at a dosage of 1 mg for 24 hours.

Chronic Data.....mutagenicity data exist for potassium hydroxide at high doses above the LD₅₀ value. None of the ingredients of this product are listed by OSHA, NTP or IARC as carcinogens.

12. ECOLOGICAL INFORMATION

Ecotoxicity.....High pH (alkalinity) of undiluted or unneutralized material is harmful to aquatic life.

Environmental Fate.....Sinks and mixes with water.

13. DISPOSAL CONSIDERATIONS

RCRA Status.....If unneutralized, aqueous solutions containing this material become waste, they may be RCRA hazardous waste, if they exhibit the corrosive characteristic of a pH greater than or equal to 12.5 as defined in EPA Rules at 40 CFR §261.22(a)(1). If such solutions are RCRA Hazardous waste, their EPA Hazardous Waste Number is D002. Exemptions may apply.

DisposalNeutralize and flush to sewer with plenty of water in accordance with federal, state, and local regulations or permits.

Empty Containers.....Since empty containers retain product residue, follow label warnings even after the container is emptied.

14. TRANSPORTATION STATUS

DOT StatusContains Potassium hydroxide, a DOT Corrosive.

UN Proper Shipping Name.....Caustic alkali liquids, n.o.s. (contains Potassium hydroxide).

UN Hazard Class/Division8

UN Identification Number.....UN1719

UN Packing Group.....II

DOT Label.....CORROSIVE.

DOT Placard.....CORROSIVE.

Reportable Quantity (RQ).....4,762 lbs. (2,155 kg) for product.

15. REGULATORY INFORMATION

TSCA StatusAll ingredients of this product conform to the requirements of the Toxic Substances Control Act.

SARA Title III Status.....No ingredient of this product is listed as an Extremely Hazardous substance pursuant to §302. No ingredient of this product is listed as a toxic chemical pursuant to §313.

CERCLA Reportable

Quantities.....Potassium hydroxide, 1000 lbs. (454 kg)
Proposition 65.....Not regulated

16. OTHER INFORMATION

THE INFORMATION ON THIS MSDS IS BELIEVED TO BE ACCURATE AND THE BEST INFORMATION AVAILABLE TO VALTECH CORPORATION. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONS FOR HANDLING A CHEMICAL BY A PERSON TRAINED IN CHEMICAL HANDLING. VALTECH CORPORATION MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO SUCH INFORMATION OR THE PRODUCT TO WHICH IT RELATES, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OR HANDLING OF THE PRODUCT TO WHICH THIS MSDS RELATES. USERS AND HANDLERS OF THIS PRODUCT SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION PROVIDED HEREIN FOR THEIR OWN PURPOSES.