VALTECH

MSDS

Material Safety Data Sheet

Valtron® SP2201 Alkaline Detergent

1. Chemical Product and Company Identification

Product Identity ..... **VALTRON SP2201 Alkaline Detergent**
Manufacturer ..... Valtech Corporation
Address ..... 1011 Daisy Point Road, Pughtown, PA 19465 USA
Telephone Number 610-469-9634
IN CASE OF EMERGENCY CALL CHEMTREC 800-424-9300 24 hours Everyday
Revision Date 11-10-98

2. Composition/Information on Ingredients

Chemical and Common Name	CAS Registry Number	Percent	OSHA PEL	ACGIH TLV
2-butoxyethanol; Ethylene glycol monobutyl ether	111-76-2	4.25%	50ppm, 240mg/m³skin	25ppm, 121mg/m³skin
Anionic and nonionic surfactants	Trade Secret	Trade Secret	Not established	Not established
Water	7732-18-5	Trade Secret	Not established	Not established

3. Hazards Identification

Emergency Overview ..... Colorless liquid. Slight sweet 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 Contact ..... CORROSIVE—Causes eye burns

Skin Contact ..... Causes irritation. Prolonged or widespread skin contact or prolonged inhalation of vapor or mist may cause red blood cell damage and secondary injury to kidneys and liver

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

Ingestion	Causes irritation to mouth and digestive tract. Ingestion of large quantities may cause red blood cell damage and secondary injury to kidneys and liver.
Chronic Hazards	No known chronic hazards. Not listed by OSHA, NTP or IARC as a carcinogen
Signs and Symptoms of Exposure	Pain, 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.
Skin	In 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 Limits	Not Applicable.
Fire Extinguishing Media	Compatible with dry chemical, water spray, and regular foam.
Special Fire Fighting Procedures	Eye 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.

NFPA Rating

Flammability	0
Health	1
Reactivity	1
Other	

6. ACCIDENTAL RELEASE MEASURES

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

Large Spill: ..... Contain 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. Dispose according to local, state and federal regulations.

7. HANDLING AND STORAGE

Handling: ..... Do 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 Protection: ..... Use 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 & Odor ..... Colorless liquid

Specific Gravity ..... 1.054 g/cc

Solubility in Water ..... Complete

Vapor Pressure ..... 25mmHgat 20°C (68°F)

pH (aqueous liquids only): 11.8

Evaporation rate

(Butyl acetate=100) 75

10. STABILITY AND REACTIVITY

Stability: ..... Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to Avoid: ..... Avoid 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 Data: ..... The reported oral rat LD_{50} value for 2-butoxyethanol is 470 mg/kg. The reported inhalation rat LC_{50} value for 2-butoxyethanol is 440 mg/kg/4hr. The reported rabbit skin LD_{50} value for 2-butoxyethanol is 200 mg/kg.

Chronic Data: ..... Results of studies in laboratory animals indicate that 2-butoxyethanol does not cause specific toxic effects on the development of offspring. The material does not cause increases in malformations even at dosages which product clear evidence of maternal toxicity. The types of developmental effects noted at maternally toxic levels are consistent with those which might be anticipated in offspring from mothers suffering from toxic effects or stress as a result of chemical exposure. In laboratory studies, large doses of 2-butoxyethanol have caused injury to liver and kidneys. This injury is believed to be secondary to red blood cell hemolysis, a known effect of 2-butoxyethanol in rodents. Humans are resistant to the hemolytic effects of 2-butoxyethanol.

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.

Disposal:..... Neutralize 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 Status..... Not a DOT Hazardous Material

15. Regulatory Information

TSCA Status:..... All 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: ..... N.A.

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.