

# MATERIAL SAFETY DATA SHEET

## Curtis/GlenChem Corp.

Eddystone Industrial Park  
2000 Industrial Highway  
Eddystone, PA 19022-1513

Product: **ALKADET MSR**

Daytime Telephone: (610) 876-9906  
24 Hour Emergency: CHEMTREC® (800) 424-9300

MSDS No.: F2248 - Rev. 3.0 Date: 08/96  
Replaces - Rev. 2.0 07/93  
Reason: Info. Update - Section 10

### -- SECTION 01 - IDENTIFICATION AND INFORMATION --

Product or Trade Name: ALKADET MSR  
Chemical Name/Synonym: PROPRIETARY BLEND  
Chemical Family: ALKALINE LIQUID  
Formula: N/A (MIXTURE)  
Product Code: F2248

HMIS  
Hazard Rating:  
Health: 2  
Fire: 0  
Reactivity: 1  
Legend:  
0 - Least  
1 - Slight  
2 - Moderate  
3 - High  
4 - Extreme

Product Description: Liquid mildew and stain remover

### -- SECTION 02 - PHYSICAL DATA --

Boiling Point: > 212°F (decomposes at 230°F)  
Vapor Pressure: N/A (mmHg)  
Vapor Density: N/A (AIR=1)  
Appearance: Clear, yellow/green liquid  
pH: 12.5 ± 0.1, as received  
Solubility in Water: Infinite  
Specific Gravity: 1.1 (H<sub>2</sub>O=1)  
% Volatile by Volume: 5-16%  
Odor: Distinctive chlorine  
pH working solutions: 12.0

### -- SECTION 03 - HAZARDOUS COMPONENTS --

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>% Range</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
* hypochlorous acid, sodium salt	7681-52-9	12-15	1 ppm, C12 Ceiling	1 ppm, TWA
Sodium Hydroxide	1310-73-2	1-10	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Inert and/or non-hazardous components	-----	85	-----	-----

\* Component hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200) or one or more state Right-To-Know lists. PA - Environmental Hazardous Substance; NJ - Workplace Hazardous Substance List; NY - Hazardous Substances

### -- SECTION 04 - FIRE AND EXPLOSION HAZARD DATA --

Flash Point: N/A  
Extinguishing Media: Use water spray or fog, foam, dry chemical, or carbon dioxide.  
Special Fire Fighting Procedures: Use self-contained breathing apparatus and full protective equipment. Acid contamination will produce very irritating, possibly deadly fumes. Decomposes when heated. Decomposition products may cause containers to rupture or explode. Vigorous reaction possible with organic materials or oxidizing agents and may result in perpetuation of fire.

### -- SECTION 05 - REACTIVITY DATA --

Stability: Stable.  
Incompatibility: Strong oxidizers, acids, unintended organics, ammonia, heavy metals, and ether.  
Hazardous Decomposition Products: Acid fumes.  
Hazardous Polymerization: Not known to occur.

- Continued -

Page 2 -- ALKADET MSR msds, continued

### -- SECTION 06 - SPILL, LEAK, AND DISPOSAL PROCEDURES --

Small Spills: Flush to dilute with fresh water.

Large Spills: Prevent spread of spill by diking. Salvage uncontaminated material if possible. Dilute remainder of spill with fresh water.

ALWAYS DISPOSE OF MATERIAL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES FOR THAT TYPE OF MATERIAL.

## -- SECTION 07 - HEALTH HAZARD DATA --

EYE CONTACT: ..... May cause irritation, severe irritation or chemical burn if not irrigated immediately.  
SKIN CONTACT: ..... Skin contact may cause severe irritation and burns.  
INHALATION: ..... Inhalation of hypochlorous acid fumes may cause severe respiratory tract irritation and pulmonary edema.  
INGESTION: ..... Ingestion may cause pain and inflammation of the mouth and digestive system, burns and perforation of the esophagus or stomach, vomiting, circulatory collapse, confusion, delirium and coma..  
EFFECTS OF OVEREXPOSURE: ..... Corrosive and strongly irritating the eyes, skin, and respiratory tract. Toxicology is a function of concentration.  
IARC and NTP ..... Industrial grades are more toxic and corrosive than household grades.  
IARC and NTP ..... NONE of the ingredients in this product are listed by the NTP, IARC, or OSHA as possible carcinogens.

## -- SECTION 08 - FIRST AID --

EYES: ..... Flush with water for a minimum of 15 minutes (industry safety standard for all materials) while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. **Seek medical attention immediately.**  
SKIN: ..... Flush with water; wash with soap and water after handling.  
INHALATION: ..... Remove to fresh air.  
INGESTION: ..... DO NOT INDUCE VOMITING - Seek medical attention. Never give anything by mouth to an unconscious person.

## -- SECTION 09 - SPECIAL HANDLING INFORMATION --

VENTILATION: ..... Provide good general room ventilation plus local exhaust at points of emission.  
RESPIRATORY PROTECTION: ..... NIOSH /MSHA approved respirator as precautionary measure where airborne contaminants may occur.  
PROTECTIVE CLOTHING: ..... Chemical resistant gloves when mixing or handling, made of neoprene, vinyl, or rubber, rubber safety shoes and impervious clothing when appropriate.  
EYE PROTECTION: ..... Tight fitting or chemical workers goggles plus full face shield to protect against splashing where appropriate.  
1 Eye wash station and emergency shower should be in close proximity. It is essential to wash eyes within-minute of contact to prevent permanent damage.

## -- SECTION 10 - REGULATORY AND ADDITIONAL INFORMATION --

HANDLING AND STORAGE: Do not breathe vapors or mist. Do not allow contact with eyes, or leave in contact with skin for prolonged periods. Wash contaminated clothing prior to re-use. Do not allow contact with oxidizers. Empty Containers: Do not reuse empty containers for storage of foodstuffs or potable water. For returnable drums or drums set aside for reconditioner, empty drums as completely as possible and fit bungs tightly with undamaged closures. D.O.T. regulations forbid transportation of partially filled and unclosed containers.  
D.O.T.: Shipping Classification: Compounds, Cleaning Liquid, n.o.s.,(sodium hydroxide/sodium hypochlorite), 8, NA1760, PG II, ERG - 154 (1996)

TSCA - The ingredients in this material are listed on the TSCA Inventory.

FIFRA - Sodium hypochlorite is regulated by the EPA under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), if used as a pesticide.

SARA Title III Information sodium hypochlorite: A) Sections 311/312 - Listed /Acute, Reactive; B) Section 313 - Listed; C) Section 302 - Not Listed as an Extremely Hazardous Substance.

CERCLA Information for the: Listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with NRC RQs of 100 lbs. Release to land, air or water of sodium hypochlorite would be in excess of 100 lb. to meet the RQ for reporting.

Abbreviations Used in this Material Safety Data Sheet: < = Less Than; > = Greater Than; N/A = Not Applicable; N/E = Not Established; N/L = Not Listed; N/D = Not Determined; TWA = Time Weighted Average; STEL = Short Term Exposure Limit; PEL = Permissible Exposure Limit; NIOSH = National Institute of Occupational Safety & Health; OSHA = Occupational Safety & Health Administration; ACGIH = American Conference of Government and Industrial Hygienists; NTP = National Toxicology Program; IARC = International Agency for the Registration of Carcinogens; TSCA = Toxic Substance Control Act; SARA = Superfund Amendment Reauthorization Act; RQs = Reportable Quantities; CERCLA = Comprehensive Environmental Response Compensation and Liability Act; NRC = National Response Center; RCRA = Resource Recovery and Conservation Act.  
The information herein is given in good faith, but no warranty, express or implied, is made.