MATERIAL SAFETY DATA SHEET

Curtis/GlenChem Corp.

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Product: **ANODET**

MSDS No.: F2370 - Rev 4.0 Date: 08/96
Replaces - Rev 3.0 08/95
Reason: Inf. Update - Section 10

-- SECTION 01 - IDENTIFICATION AND INFORMATION --

Product or Trade Name: ..... ANODET
Chemical Name/Synonym: ..... PROPRIETARY BLEND
Chemical Family: ..... ACIDIC COMPOUND
Formula: ..... PROPRIETARY
Product Code: F2370

HMIS
Hazard Rating: Legend:

Health: ..... 2 0 - Least
Fire: ..... 0 1 - Slight
Reactivity: ..... 1 2 - Moderate
3 - High
4 - Extreme

Product Description: Acidic Cleaning Compound

-- SECTION 02 - PHYSICAL DATA --

Boiling Point:: ..... > 210°F
Vapor Pressure: ..... N/E / N/A (mmHg)
Vapor Density: ..... > 1 (AIR=1)
Appearance: ..... Clear, blue liquid
pH neat:: ..... 1.4 ± 0.1

Solubility in Water: ..... Infinite
Specific Gravity: ..... 1.15 (H_2O=1)
% Volatile by Volume: ..... N/A (non-solvent)
Odor: ..... None
pH working solutions: ..... 1.8 - 2.2 (varies w/ conc.)

-- SECTION 03 - HAZARDOUS COMPONENTS --

CHEMICAL NAME	CAS #	% Range	OSHA PEL	ACGIH TLV
*Phosphoric Acid	7664-38-2	30 - 40	3 mg/m^3, TWA 3 mg/m^3, STEL	1 mg/m^3 ,TWA 3 mg/m^3, STEL
*Dodecylbenzenesulfonic acid (Listed in CA and IL)	27176-87-0	1 - 10	Not Listed	Not Listed
Inert and/or non-hazardous components	--------	60 - 70	----------	----------

*Component hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200) or one or more state Right-To-Know lists.

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

Flash Point: ..... N/A (will not support combustion).
Extinguishing Media: ..... Small Fire: CO^2, water fog, dry chemical; Large Fire: Alcohol-type or all-purpose-type foam.
Special Fire Fighting Procedures: ..... Use self-contained breathing apparatus; water may be used to cool adjacent containers.

-- SECTION 05 - REACTIVITY DATA --

Stability: ..... Stable.
Incompatibility: ..... Strong oxidizers such as chlorine. Contact with reactive metals may produce flammable and/or explosive hydrogen - air mixtures.
Hazardous Decomposition Products: ..... Carbon monoxide may form upon thermal degradation. At flame temperatures, will emit toxic phosphorous oxide fumes.
Hazardous Polymerization: ..... Will not occur.

- Continued on following page -

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

Small Spills: Absorb with sand or inert material; scoop up and dispose to proper container.
Large Spills: Prevent spread of spill by dyking. Salvage uncontaminated material if possible. Absorb remainder of spill with inert material; scoop up and dispose to proper container.

DO NOT ALLOW SPILLS or RUNOFF TO CONTAMINATE STREAMS, LAKES, or RIVERS.
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 conditions from irritation to burns. Severe irritation or chemical burn may occur if not irrigated immediately (within seconds of contact). Elevated temperatures increase chemical hazard as well as introduce a thermal hazard in all areas of contact.
SKIN CONTACT: ..... Prolonged contact may cause chemical burns of the skin. It may not produce an immediate sensation.
INHALATION: ..... Aspiration of mists of heated solutions cause symptoms of irritation to burns of respiratory system.
INGESTION: ..... Considered only slightly toxic.
EFFECTS OF OVEREXPOSURE: ..... None currently known. Phosphoric acid as a major component of this product has a low acute oral and moderate dermal toxicity. It is considered corrosive to the eyes.

-- SECTION 08 - FIRST AID --

EYES: ..... Flush with water for a minimum of 15 minutes (industry safety standard for all materials). Seek medical attention if irritation persists.
SKIN: ..... Flush with water; wash with soap and water after handling.
INHALATION: ..... Remove to fresh air.
INGESTION: ..... DO NOT INDUCE VOMITING - Seek medical attention. Administer several glasses of water to drink. However, never give anything by mouth to an unconscious person.

-- SECTION 09 - SPECIAL HANDLING INFORMATION --

VENTILATION: ..... None normally required; product normally does not produce vapors or mist. If misting is anticipated, provide suitable ventilation to maintain levels below established exposure limits.
RESPIRATORY PROTECTION: ..... None normally required; NIOSH approved respirator for mist conditions.
PROTECTIVE CLOTHING: ..... Chemical resistant gloves when mixing or handling. Protective gear sufficient to prevent personal contact.
EYE PROTECTION: ..... Tight fitting or chemical workers goggles.

-- 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., (phosphoric acid), 8, NA1760, PGII, ERG - 154 (1996)

TSCA - The ingredients in this material are listed on the TSCA Inventory.
SARA Title III Information (for phosphoric acid as a component of this material): A) Sections 311/312 - Acute, Reactive; B) Section 313 - Listed - 5000 lbs.; C) Section 302 - Not Listed as an Extremely Hazardous Substance.

CERCLA Information (for the phosphoric acid component): Listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with NRC RQs of 5000 lbs. Release to land, air or water of ANODET would be in excess of 750 gallons to meet the RQ for reporting.

CERCLA Information (for the dodecylbenzenesulfonic acid component): Listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with NRC RQs of 1000 lbs. Release to land, air or water of ANODET would be in excess of 1,035 gallons 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.
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