

MATERIAL SAFETY DATA SHEET

VARN CALCIUM ELIMINATOR

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Revised: January 03, 2005

PRODUCT CODE: B014100

HMIS CODES: H F R P
2 0 0 X

SECTION 1 - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Day International Chemical Products Div.
ADDRESS : 905 South Westwood Avenue
Addison, Illinois 60101

EMERGENCY PHONE: 800-424-9300

INFORMATION PHONE: 800-336-8276

NAME OF PREPARER: DAY Chemical Prod. Div.

DATE PRINTED: 01/03/2005

REASON REVISED: Update; Supersedes All Previous Revisions.

SECTION 2 - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR MM HG @	PRESSURE TEMP	WEIGHT PERCENT
Hydroxyacetic Acid OSHA PEL: N/E, ACGIH® TLV®: N/E, Mfg: 10mg/M3 TWA	79-14-1	N/E	N/A	8
Amidosulfamic Acid OSHA: N/E, ACGIH® TLV®: N/E	5329-14-6	N/E	N/A	8
Citric Acid OSHA PEL: N/E, ACGIH® TLV®: N/E	77-92-9	N/A	N/A	6

*** No toxic chemical(s) subject to the reporting requirements of SECTION 313 of SARA Title III and of 40 CFR 372 are present. *** All ingredients are listed on the EPA TSCA Inventory.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE/POINT: >212°F

SPECIFIC GRAVITY (H2O=1): 1.1

VAPOR DENSITY: Heavier than air.

EVAPORATION RATE: Slower than water.

V.O.C. (EPA METHOD 24): . lb/gl

VAPOR PRESSURE (MM HG @ 20°C): Not established.

SOLUBILITY IN WATER: 100%

APPEARANCE AND ODOR: Green Liquid - Mild Odor

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None

METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A

UPPER: N/A

EXTINGUISHING MEDIA:

Foam, CO2, Dry Chemical, Water Fog.

SPECIAL FIREFIGHTING PROCEDURES:

Under normal conditions this product does not support combustion. However, as in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved) and full protective (bunker) gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None Known.

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SECTION 5 - REACTIVITY DATA

STABILITY:

Stable

CONDITIONS TO AVOID:

Avoid conditions of excess heat to prolong shelf life. Protect from freezing.

INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid mixing with strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

None known.

HAZARDOUS POLYMERIZATION:

Will Not Occur.

SECTION 6 - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Not an inhalation hazard in normal industrial use.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Skin contact may cause moderate irritation. Eye contact will cause severe irritation and could result in permanent damage.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Prolonged or repeated skin contact may cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Ingestion of this product will cause nausea, gastro-intestinal irritation, diarrhea and possible damage to vital organs. Follow first aid procedures.

HEALTH HAZARDS (ACUTE AND CHRONIC):

This product will cause irritation and possible permanent damage upon contact with eyes and cause irritation to the skin. No chronic effects are known or expected.

CARCINOGENICITY: NTP CARCINOGEN: No

IARC MONOGRAPHS: No

OSHA REGULATED: No

This product contains no known carcinogens.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Skin contact may aggravate pre-existing dermatitis.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush with water for 15 minutes. Seek medical attention immediately. SKIN: Wash with soap and water. INHALATION: Move to fresh air. INGESTION: DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water to drink. Never give anything by mouth to an unconscious person.

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SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Clean up small spills with soap water and a mop. Large spills should be diked and kept from entering the sewer. Soak up large spills with absorbent or transfer liquid into a closed container for later disposal.

WASTE DISPOSAL METHOD:

This product as supplied, may meet the sewer disposal guidelines in many municipalities after pH adjustment. See "Other Precautions" for more information.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Store in a cool dry area away from sunlight and excess heat. Protect from freezing. When using or transferring this product, wear proper personal protective equipment.

OTHER PRECAUTIONS/DOT INFORMATION:

DOT Proper Shipping Name: Corrosive Liquid n.o.s. (Sulfamic Acid), Hazard Class: 8, ID No.: UN1760, Packing Group: III. Containers of 1 gallon or less are Exempt. Sewer disposal is governed by EPA Regulations (Clean Water Act) which controls local sewer authorities (POTW). Sewer disposal of spent product may be restricted by discharge limits for specific chemicals set by the POTW and end of pipe chemical levels of the individual user. Check with the local POTW before sewer disposal.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION:

No special protection is required under normal conditions of use.

VENTILATION:

No special ventilation required.

PROTECTIVE GLOVES:

Not required under normal conditions of use. For extended exposure wear gloves made of butyl or nitrile rubber.

EYE PROTECTION:

Wear safety glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

A personal protective rating of X means you must see your supervisor for guidance. OSHA regulations (29CFR Part 1910, Subpart I) require employers to evaluate Personal Protective Equipment requirements in the workplace.

WORK/HYGIENIC PRACTICES:

Wash with soap and water after product contact with skin.

SECTION 9 - DISCLAIMER

The information on this MSDS is believed to be accurate as of the date shown in SECTION 1. Since the use of this product is not under the control of DAY Chemical Products Division, it is the user's responsibility to determine what constitutes safe usage for a particular product. This form may be reproduced in quantities necessary to meet your requirements.