The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

"DuPont" "KRENITE" S BRUSH CONTROL AGENT
M0000022 Revised 11-JAN-2006

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"Krenite" is a registered trademark of DuPont.

"DuPont" is a trademark of DuPont.

Corporate MSDS Number : DU003056
Grade : CONTAINS 4 LB ACTIVE INGREDIENT PER GALLON

Tradenames and Synonyms

"KRENITE"
"KRENITE" S BRUSH CONTROL AGENT

Company Identification

MANUFACTURER/DISTRIBUTOR
DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS
Product Information : 1-800-441-7515 (outside the U.S. 302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S. 703-527-3887)
Medical Emergency : 1-800-441-3637 (outside the U.S. 302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
FOSAMINE AMMONIUM (AMMONIUM SALT OF FOSAMINE [ETHYL HYDROGEN (AMINOCARBONYL) PHOSPHONATE])	25954-13-6	41.5
INERT INGREDIENTS		58.5

HAZARDS IDENTIFICATION

Emergency Overview

CAUTION! Causes (moderate) eye injury (irritation). Avoid contact with eyes or clothing.

Potential Health Effects

Inhalation of Krenite may cause irritation of nose, throat, and lungs, with cough, difficulty breathing or shortness of breath, and nonspecific discomfort, such as nausea, headache, or weakness.

Skin contact with Krenite may cause skin irritation with itching, burning, redness, swelling or rash. Significant skin penetration and systemic toxicity after skin contact appears unlikely.

There are inconclusive or unverified reports of human sensitization.

Eye contact with Krenite may cause eye irritation with tearing, pain or blurred vision.

Ingestion of high doses of Krenite may cause nonspecific discomfort such as nausea, headache or weakness.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.

IF SWALLOWED: No specific intervention is indicated as the compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

IF ON SKIN OR CLOTHING: No specific intervention is indicated as the compound is not likely to be hazardous to skin by dermal exposure. Consult a physician if necessary.

(FIRST AID MEASURES - Continued)

Have the product container label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for medical emergencies involving this product.

FIRE FIGHTING MEASURES

Flammable Properties

Not a fire or explosion hazard.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray. Cool tank/container with water spray. Runoff from fire control may be a pollution hazard.

If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Emergency Response - Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up. Never return to container for reuse. Scoop into bags or boxes with plastic or aluminum shovel.

(ACCIDENTAL RELEASE MEASURES - Continued)

Accidental Release Measures

If spill area is on ground near valuable plants or trees, remove top 2 inches of soil after initial cleanup.

HANDLING AND STORAGE

Handling (Personnel)

Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Storage

Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

Personal Protective Equipment

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.
Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls.
Shoes plus socks.

Exposure Guidelines

Applicable Exposure Limits
FOSAMINE AMMONIUM
AEL * (DuPont) : 5 mg/m3, 8 & 12 Hr. TWA

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Solubility in Water	:	Soluble
Form	:	Liquid
Color	:	Colorless to brown
Specific Gravity	:	1.17 @ 24°C (75°F)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

Decomposition will not occur.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Krenite
Oral LD50: > 5000 mg/kg in rats
Dermal LD50: > 5000 mg/kg in rabbits
Inhalation LC50, 4 hr: > 5.8 mg/L in rats

Krenite is a reversible moderate to severe eye irritant, a mild to moderate skin irritant, but not a skin sensitizer.

The effects of skin exposure to high doses of Krenite include non-specific effects such as weight loss. Repeated exposures to lower doses caused no signs of toxicity.

(TOXICOLOGICAL INFORMATION - Continued)

The effects of ingestion of single high doses of Krenite include diarrhea and vomiting. Repeated or long-term ingestion of lower doses caused mild diarrhea in some animals, but no other clinical or pathological evidence of toxicity.

The effects from single, high exposures by inhalation of Krenite, include respiratory and eye irritation, weight loss, and weakness.

No animal data are available to define the carcinogenic hazards of Krenite.

Krenite has not caused developmental toxicity in animals. The active ingredient, Fosamine ammonium, has not caused reproductive toxicity in animals.

Tests have shown that Krenite does not cause genetic damage in bacterial or mammalian cell cultures, or in animals. It has not been tested for heritable genetic damage.

ECOLOGICAL INFORMATION

Ecotoxicological Information

FOSAMINE AMMONIUM

AQUATIC TOXICITY:
96 hour LC50 - Rainbow trout: 330 mg/L.
96 hour LC50 - Bluegill sunfish: 590 mg/L.
96 hour LC50 - Fathead minnows: > 1000 mg/L.
48 hour LC50 - Daphnia magna: 1524 ppm.

AVIAN TOXICITY:
LD50 - Mallard Duck: > 5000 mg/kg.
LD50 - Quail. > 5000 mg/kg.
Acute Dietary LC50 - Mallard Duck: > 5620 ppm.
Acute Dietary LC50 - Quail. > 5620 ppm.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, state/provincial, and local regulations. Recover nonusable free liquid and dispose of in approved and permitted incinerator. Do not flush to surface water or sanitary sewer system.

Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

ENVIRONMENTAL HAZARDS

(DISPOSAL CONSIDERATIONS - Continued)

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

Container Disposal

Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO
Proper Shipping Name : NOT REGULATED

REGULATORY INFORMATION

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : No
Fire : No
Reactivity : No
Pressure : No

In the United States this product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

EPA Reg. No. 352-395

OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating
Health : 1
Flammability : 0
Reactivity : 0

NPCA-HMIS Rating
Health : 1
Flammability : 0
Reactivity : 0

(Continued)

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : DuPont Crop Protection
Wilmington, DE 19898
Telephone : 1-888-638-7668

# Indicates updated section.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS