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DuPont
Material Safety Data Sheet

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M0000037 DuPont "CLASSIC" HERBICIDE
Revised 20-MAR-2002

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"CLASSIC" is a registered trademark of DuPont.

"DuPont" is a trademark of DuPont.

Corporate MSDS Number : DU005723
Grade : A 25% FORMULATION

Tradenames and Synonyms

"SKIRMISH" HERBICIDE
CHLORIMURON ETHYL

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	%
*CHLORIMURON ETHYL (ETHYL 2-[[[(4-CHLORO-6-METHOXYPRIMIDIN- 2-YL)AMINO]CARBONYL]AMINO]SULFONYL]BENZOATE)	90982-32-4	25
INERT INGREDIENTS		75

* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

HAZARDS IDENTIFICATION

Emergency Overview

CAUTION: May irritate eyes, nose, throat and skin. May be harmful if absorbed through skin. Avoid contact with skin, eyes and clothing. Avoid breathing dust or spray mist. Get medical attention if irritation persists.

Potential Health Effects

ANIMAL DATA:

ORAL-(rats) LD50 greater than 5,000 mg/kg. Very low toxicity.

DERMAL-(rabbits) LD50 greater than 2,000 mg/kg. Slightly toxic.

Product was not a skin irritant to rabbits. Tests on guinea pigs indicate mild irritant but not a skin sensitizer.

EYE-(rabbits) A mild irritant with eyes normal within 3 days.

INHALATION-(rat) (active ingredient) LC50 greater than 5 mg/L (4-hour exposure). Moderately toxic.

CHRONIC STUDIES: Chlorimuron ethyl

2-year Rat Study - Dietary concentrations were 0, 25, 250 or 2,500 ppm. This compound was not oncogenic at any dose. The no-observable-effect-level (NOEL) was 250 ppm based on transient anemia observed during the first year of the study and on slight body and organ weight changes.

18-month Mouse Study - Dietary concentrations were 0, 12.5, 125 or 1,250 ppm. There were no oncogenic or other effects observed at any dose. Therefore the NOEL was at least 1,250 ppm, the highest level tested.

1-year Dog Study - Dietary concentrations were 0, 25, 250 or 1,500 ppm. The NOEL was 250 ppm based on increased liver weight, clinical chemistry changes and anemia at the high dose.

SPECIAL STUDIES:

Reproduction Study in Rats - Dietary concentrations were 0, 25, 250 or 2,500 ppm for a 2-generation, 4-litter study. Reproduction and lactation performance were not affected at any dose. The NOEL for maternal and fetotoxicity was 250 ppm. This was based on reduced maternal and fetal body

(HAZARDS IDENTIFICATION - Continued)

weights and a compromised nutritional state among offspring at the high dose.

Teratology Studies - Rats were dosed via intubation at 0, 30, 150 or 600 mg/kg/day. The NOEL for maternal and fetotoxicity was 30 mg/kg/day based on reduced food consumption and body weight gain and increased frequency of fetal variations. There was a slight increase in the number of fetal malformations in the presence of overt maternal toxicity at the high dose. Although this was not statistically significant, it was considered to be a weak teratogenic response. In this study, chlorimuron ethyl was not demonstrated to be a unique hazard to the conceptus.

Rabbits were dosed via intubation at 0, 15, 60 or 300 mg/kg/day. There were no teratogenic effects at any dose. The NOELs for maternal and fetotoxicity were 60 and 15 mg/kg/day, respectively. These were based on reduced body weight gain and increased frequency of fetal variations due to retarded development.

MUTAGENICITY - This compound was negative in the following genotoxicity tests: Ames bacterial assay; in vitro mutagenicity test in Chinese hamster ovary cells; in vivo cytogenetic assay (rat bone marrow cells); and in vitro unscheduled DNA synthesis (rat liver cells)

HUMAN HEALTH EFFECTS OF OVEREXPOSURE

Based on data from animal tests, prolonged ingestion of high doses of chlorimuron ethyl may include abnormal liver function as detected by laboratory tests; or anemia. Significant skin permeation, and systemic toxicity, after contact appears unlikely. Otherwise no acceptable information is available to confidently predict the effects of excessive human exposure to this compound. Individuals with preexisting diseases of the liver may have increased susceptibility to the toxicity of excessive exposures.

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 open eye and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have a product container or label with you when calling a poison control 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

Flammable limits in Air, % by Volume
LEL : 0.212 g/L
Autoignition : 330 C (626 F)

Not a fire or explosion hazard.

Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.

Extinguishing Media

Water Spray, Dry Chemical.

Fire Fighting Instructions

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

If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.

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.

Initial Containment

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

Spill Clean Up

Shovel or sweep up.

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)

Avoid breathing vapors or mist. Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Wash clothing after use. 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.

Handling (Physical Aspects)

Avoid dust generation.

Storage

Store in a well ventilated place. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Store product in original container only. Do not contaminate water, other pesticides, fertilizers, food or feed in storage, Store in a cool dry place.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Workers Protection Standard (WPS) for agricultural pesticides[40 CFR part170 Section 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Personal Protective Equipment

Some materials that are chemical resistant to this product are listed above. If you want more options, follow the instructions for category A on an EPA chemical resistant category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants
Chemical Resistant Gloves Category A (such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber) all greater than or equal to 14 mls.

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 into 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

Chemical Resistant Gloves Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber) all equal to or greater than 14 mls.

Shoes plus socks

Exposure Guidelines

Applicable Exposure Limits

CHLORIMURON ETHYL

PEL (OSHA) : None Established
TLV (ACGIH) : None Established
AEL * (DuPont) : 10 mg/m³, 8 & 12 Hr. TWA, total dust
5 mg/m³, 8 & 12 Hr. TWA, respirable dust

* 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 : Dispersible
Odor : None
Form : Solid, granules
Color : Ivory
Bulk Density (Loose) : 41-45 lb/cu ft

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.

ECOLOGICAL INFORMATION

Ecotoxicological Information

Aquatic Toxicity

Chlorimuron ethyl has low toxicity.
96 hour LC50, Rainbow Trout: >1,000 mg/L.
96 hour LC50, Bluegill Sunfish: >100 mg/L.

ENVIRONMENTAL TOXICITY:

Oral LD50, Mallard Duck: >2,510 mg/kg.
Dietary LC50, Bobwhite Quail: >5,620 ppm.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

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

Environmental Hazards:

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

Container Disposal

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

For Fiber Sacks: Completely empty fiber sack by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then dispose of sack in a sanitary landfill or by incineration if allowed by State and local authorities.

For Fiber Drums With Liners: Completely empty liners by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

For Bags Containing Water Soluble Packets: Do not reuse the outer box or the resealable plastic bag. When all water-soluble packets are used, the outer packaging should be clean and may be disposed of in a sanitary landfill or by incineration, or if allowed by State and local authorities, open burning. If burned, stay out of smoke. If the resealable plastic bag contacts the formulated product in any way, the bag must be triple rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer wrap as described above.

(DISPOSAL CONSIDERATIONS - Continued)

For Metal Containers (non aerosol): Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by the State and local authorities.

For Paper and Plastic Bags: Completely empty bag into application equipment. Then dispose of empty bag 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. 352-436

OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating
Health : 1
Flammability : 1
Reactivity : 0

NPCA-HMIS Rating
Health : 1
Flammability : 1
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