



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

DuPont  
Material Safety Data Sheet

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M0000695 "DuPont" "STS" Broadleaf Herbicide  
Revised 16-AUG-2007

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"STS" is a registered trademark of DuPont.

"DuPont" is a trademark of DuPont.

Tradenames and Synonyms

DuPont STS07 Herbicide  
DPX-PGJ21

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	90982-32-4	10
Ethyl 2-[[[(4-chloro-6-methoxypyrimidin-2-yl) amino]carbonyl]amino] sulfonyl]benzoate		
THIFENSULFURON METHYL	79277-27-3	30
Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino] sulfonyl]-2-thiophenecarboxylate		
INERT INGREDIENTS		60

\* 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.

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HAZARDS IDENTIFICATION  
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## Emergency Overview

CAUTION! Causes moderate eye irritation. Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

## Potential Health Effects

Based on animal data, repeated or excessive overexposure to Chlorimuron Ethyl by ingestion may cause abnormal liver function with altered enzyme levels in blood, or alterations in blood cell counts and/or anemia.

## 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.

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FIRST AID MEASURES  
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## 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.

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

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

Have the 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.

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FIRE FIGHTING MEASURES  
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## Flammable Properties

Not a fire or explosion hazard.

## 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.

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ACCIDENTAL RELEASE MEASURES  
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## 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. Dispose of in an approved container.

For minor spills, leaks, etc., follow all precautions indicated on the label and clean up immediately. Take special care to avoid contamination of equipment and facilities during clean up procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

## Accidental Release Measures

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

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HANDLING AND STORAGE  
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## Handling (Personnel)

Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

USERS SHOULD: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## Handling (Physical Aspects)

Avoid dust generation.

## Storage

Do not contaminate water, food or feed by storage or disposal. Store product in original container only. Store in a cool, dry place. Keep out of reach of children.

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

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 part 170 Section 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Important: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

## 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 resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical Resistant Gloves made of any waterproof material such as polyethylene or polyvinyl chloride.

## (EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued)

- 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 made of any waterproof material such as polyethylene or polyvinyl chloride.
- Shoes plus socks.

## Exposure Guidelines

## Applicable Exposure Limits

## CHLORIMURON ETHYL

PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
AEL * (DuPont)	: 10 mg/m <sup>3</sup> , 8 & 12 Hr. TWA, total dust 5 mg/m <sup>3</sup> , 8 & 12 Hr. TWA, respirable dust

## THIFENSULFURON METHYL

PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
AEL * (DuPont)	: 5 mg/m <sup>3</sup> , 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.

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Odor	: Slight, faint sour
Form	: Solid, granules
Color	: Light tan and light brown granular blend
Density	: 0.74-0.8 g/mL Tapped
pH	: 7-8

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STABILITY AND REACTIVITY  
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## 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.

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TOXICOLOGICAL INFORMATION  
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## Animal Data

Oral LD50: > 5000 mg/kg in rats  
Skin Absorption LD50: > 2000 mg/kg in rabbits  
Inhalation 4-hour LC50: > 5 mg/L in rats

Based on data from components, this product is a mild eye irritant, but is not a skin irritant or a skin sensitizer in animals.

## CHLORIMURON ETHYL

Repeated applications of Chlorimuron Ethyl to the skin of rabbits for 21 days at doses up to and including the limit dose resulted in no significant toxicological effects. Repeated and long-term ingestion of Chlorimuron Ethyl by rats, mice, and dogs caused liver effects, anemia, altered clinical chemistry, and/or decreased body weight at higher exposure levels. In rats and mice, Chlorimuron Ethyl has not caused carcinogenicity.

Exposure of pregnant rabbits caused developmental delays in the fetus at maternally toxic doses. However, studies in rats produced no evidence of developmental toxicity. Reproductive data in rats show nutritional and organ effects in offspring only at levels which produce other toxic effects in the adult animal. There were no effects on fertility or lactation indices in rats. Tests have shown that Chlorimuron Ethyl does not cause genetic damage in bacterial or mammalian cell cultures, or in animals.

## THIFENSULFURON METHYL

Repeated ingestion exposures to Thifensulfuron Methyl caused decreased body weight and organ weight changes, and some blood chemistry changes, including increased blood urea

## (TOXICOLOGICAL INFORMATION - Continued)

nitrogen and decreased protein and globulins. Long-term exposures caused an increase in liver weights, decreased body weight gain, and a decreased level of sodium in the blood when compared to the control group.

No carcinogenic effects were observed in animal tests with Thifensulfuron Methyl. Animal data show developmental effects only at exposure levels producing toxic effects in the adult animal. Tests in animals demonstrate no reproductive toxicity. Thifensulfuron Methyl does not produce genetic damage in bacterial or mammalian cell cultures or animals.

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ECOLOGICAL INFORMATION  
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## Ecotoxicological Information

## AQUATIC TOXICITY:

## CHLORIMURON ETHYL

Low toxicity.

96 hour LC50 - Rainbow trout: > 1,000 mg/L

## AVIAN TOXICITY

Acute Oral LD50 - Mallard Duck: > 2510 mg/kg

Acute Dietary LC50 - Bobwhite Quail: > 5620 ppm

Acute Dietary LC50 - Mallard Duck: > 5620 ppm

## AQUATIC TOXICITY:

## THIFENSULFURON METHYL

96 hour LC50 - Rainbow trout: > 100 mg/L.

96 hour LC50 - Bluegill sunfish: > 100 mg/L.

## AVIAN TOXICITY:

Acute Oral LD50 - Mallard Duck: > 2510 mg/kg.

Acute Dietary LC50 - Mallard Duck: > 5620 mg/kg.

Acute Dietary LC50 - Bobwhite Quail: > 5620 mg/kg

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DISPOSAL CONSIDERATIONS  
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## Waste Disposal

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 to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Do not apply where/- when conditions favor runoff.

## (DISPOSAL CONSIDERATIONS - Continued)

## 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 incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Container Refilling and Disposal (For Containers up to 250 gal): REFER TO THE PRODUCT LABEL FOR INSTRUCTIONS.

If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.

Container Disposal for Bulk Containers: REFER TO THE PRODUCT LABEL FOR INSTRUCTIONS.

The container must only be refilled with this pesticide product. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.

Do not transport if the container is damaged or leaking.

Disposal of the container must be in compliance with State and local regulations.

For minor spills, leaks, etc., follow all precautions indicated on the product label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

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TRANSPORTATION INFORMATION  
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## Shipping Information

DOT/IMO  
Proper Shipping Name : NOT REGULATED

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REGULATORY INFORMATION  
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## U.S. Federal Regulations

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.

## TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

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

EPA Reg. No. 352-749

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OTHER INFORMATION  
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## NFPA, NPCA-HMIS

NFPA Rating  
Health : 1  
Flammability : 1  
Reactivity : 0

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

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

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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  
Address : Wilmington, DE 19898  
Telephone : 1-888-638-7668

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