

DuPont[™] Canopy[®] EX Herbicide

Version 2.0

Revision Date 07/12/2013 Ref. 130000029384

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont [™] Canopy [®] EX Herbicide

Tradename/Synonym : Canopy Ex

DPX-JXH53 B11731688

Chlorimuron Ethyl: Ethyl 2-[[[(4-chloro-6-methoxypyrimidin-2-

yl)amino]carbonyl]amino]sulfonyl]benzoate

Tribenuron methyl: Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-

yl)methylamino]carbonyl]amino]sulfonyl]benzoate

MSDS Number : 130000029384

Product Use : Herbicide

Manufacturer : DuPont

1007 Market Street Wilmington, DE 19898

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000) Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)

Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes and clothing.

Wash thoroughly with soap and water after handling.

Potential Health Effects

Skin : May cause: Irritation with discomfort or rash.

Eyes : May cause: Irritation with discomfort, pain, redness, or visual impairment.

Ingestion

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Chlorimuron ethyl : Gross overexposure may cause: Abnormal decrease in number of red

blood cells (anaemia) which could produce tiredness, rapid heartbeat,

dizziness, pale skin, leg cramps, shortness of breath.

Repeated exposure

Quartz : DuPont has classified this material as a known human carcinogen.

Carcinogenicity

Material IARC NTP OSHA

Titanium dioxide 2B

Quartz 1 X

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Chlorimuron ethyl	90982-32-4	22.7 %
Tribenuron methyl	101200-48-0	6.8 %
Other Ingredients		70.5 %

Present as an impurity in the clay component of this product:

Quartz	<1 %
Titanium Dioxide	<1 %

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SECTION 4. FIRST AID MEASURES

Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with

plenty of water for 15-20 minutes. Call a poison control center or doctor for

treatment advice.

Eye contact : Hold eye open 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 or doctor for treatment advice.

Inhalation : No specific intervention is indicated as the compound is not likely to be

hazardous. Consult a physician if necessary.

Ingestion : No specific intervention is indicated as the compound is not likely to be

hazardous. Consult a physician if necessary.

General advice : Have the product container or label with you when calling a poison control

center or doctor, or going for treatment.

For medical emergencies involving this product, call toll free 1-800-441-3637.

See Label for Additional Precautions and Directions for Use.

SECTION 5. FIREFIGHTING MEASURES

Flammable Properties

Auto-ignition temperature : 330 °C (626 °F)

Lower explosion limit/ lower

flammability limit

: 0.212 g/l

Fire and Explosion Hazard : Under severe dusting conditions, this material may form explosive mixtures in

air.

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet, (contamination risk)

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Firefighting Instructions : Wear full protective clothing and self-contained breathing apparatus.

(on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool

containers / tanks with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing

apparatus. Use personal protective equipment.

Spill Cleanup : Sweep up and shovel into suitable containers for disposal.

Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas.

Never return spills in original containers for re-use. Dispose of in accordance

with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating,

drinking, chewing gum, using tobacco, or using the toilet. Remove

clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment 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) : Keep away from heat and sources of ignition. Avoid dust formation.

Storage : Store in original container. Do not contaminate water, other pesticides,

fertilizer, food or feed in storage. Keep out of the reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Ensure adequate ventilation. IMPORTANT: When reduced PPE is worn

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because a closed system is being used, handlers must be provided all PPE specified 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 Skin and body protection

: Mixers, loaders, applicators and other handlers must wear:

Long sleeved shirt and long pants

Chemical resistant gloves made of any waterproof material, such as polyvinyl

chloride, nitrile rubber, or butyl rubber

Shoes plus socks

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

Chemical resistant gloves made of any waterproof material

Shoes plus socks

Protective measures : Follow manufacturer's i

: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and

wash PPE separately from other laundry.

Exposure Guidelines
Exposure Limit Values

Tribenuron methyl

AEL * (DUPONT) 0.5 mg/m3 12 hr. TWA

AEL * (DUPONT) 1 mg/m3 8 hr. TWA

Chlorimuron ethyl

AEL * (DUPONT) 10 mg/m3 8 & 12 hr. TWA Total dust.

AEL * (DUPONT) 5 mg/m3 8 & 12 hr. TWA Respirable dust.

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Titanium dioxide PEL:	(OSHA)	15 mg/m3	8 hr. TWA Total dust.
TLV	(ACGIH)	10 mg/m3	TWA
AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA Total dust.
AEL*	(DUPONT)	5 mg/m3	8 & 12 hr. TWA Respirable dust.
Quartz PEL:	(OSHA)	2.4 millions of Respirable. Remarks	particles per cubic foot of air TWA The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value
			of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.
PEL:	(OSHA)	0.1 mg/m3 Remarks	TWA Respirable. The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.
PEL:	(OSHA)	0.3 mg/m3 Remarks	TWA Total dust. The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.
TLV	(ACGIH)	0.025 mg/m3	TWA Respirable fraction.
AEL *	(DUPONT)	0.01 mg/m3	12 hr. TWA Respirable dust.
AEL *	(DUPONT)	0.02 mg/m3	8 hr. TWA Respirable dust.

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^{*} AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which



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are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid, water dispersible granules

 Color
 : ivory

 Odor
 : none

 pH
 : 6.6 - 7.4

 Bulk density
 : 0.75 - 0.91 GJ

SECTION 10. STABILITY AND REACTIVITY

Stability : Stable at normal temperatures and storage conditions.

Conditions to avoid : None reasonably foreseeable.

Incompatibility : No materials to be especially mentioned.

Hazardous reactions : Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Inhalation 4 h LC50 : > 5 mg/l, rat

Dermal LD50 : > 2,000 mg/kg, rabbit

Oral LD50 : > 5,000 mg/kg, rat

Skin irritation : slight irritation, rabbit

Eye irritation : slight irritation, rabbit

Sensitisation : Does not cause skin sensitisation., rabbit

Further information : Information given is based on data on the components.

Chlorimuron ethyl

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Repeated dose toxicity :

The following effects occurred at levels of exposure that significantly

exceed those expected under labeled usage conditions.

Dermal rabbit

No toxicologically significant effects were found.

Oral dog

Abnormal decrease in number of red blood cells

Oral rat

No adverse effect has been observed in chronic toxicity tests.

Carcinogenicity : Animal testing did not show any carcinogenic effects.

Mutagenicity : Did not cause genetic damage in animals.

Tests on bacterial or mammalian cell cultures did not show mutagenic

effects.

Reproductive toxicity : No toxicity to reproduction

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels

equal to or above those causing maternal toxicity.

Tribenuron methyl

Repeated dose toxicity

The following effects occurred at levels of exposure that significantly

exceed those expected under labeled usage conditions.

Oral - feed mouse 90 d

Reduced body weight gain

Oral rat

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28 d

Reduced body weight gain

Carcinogenicity : An increased incidence of tumours was observed in laboratory

animals.
Target(s):

Mammary glands

Mutagenicity : Did not cause genetic damage in cultured bacterial cells.

Did not cause genetic damage in cultured mammalian cells.

Did not cause genetic damage in animals.

Reproductive toxicity : Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels

equal to or above those causing maternal toxicity.

Evidence suggests the substance is not a developmental toxin in

animals.

Quartz

Repeated dose toxicity

The following effects occurred at levels of exposure that significantly

exceed those expected under labeled usage conditions.

Inhalation

Fluid retention in lungs (pulmonary oedema), lung effects,

Inflammation, Chronic lung disease, Fibrosis

Carcinogenicity : Human carcinogen.

DuPont has classified this material as a known human carcinogen.

Titanium Dioxide

Carcinogenicity : Based upon all available study results, DuPont scientists conclude

that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experienced in the workplace.

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SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Chlorimuron ethyl

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 1,000 mg/l

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) > 100 mg/l

72 h EC50 : Pseudokirchneriella subcapitata (green algae) 0.001 mg/l

48 h EC50 : Daphnia magna (Water flea) > 1,000 mg/l

Tribenuron methyl

96 h LC50 : Oncorhynchus mykiss (rainbow trout) 738 mg/l

120 h EC50 : Pseudokirchneriella subcapitata 0.0208 mg/l

14 d EC50 : Lemna gibba (duckweed) 0.00424 mg/l

48 h EC50 : Daphnia magna (Water flea) > 894 mg/l

Additional ecological information : 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 or rinsate. Do not apply

or disposing of equipment washwaters or rinsate. Do not apply where/when conditions favour runoff. See product label for additional

application instructions relating to environmental precautions.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : Do not contaminate water, food or feed by disposal. Wastes resulting from the

use of this product must be disposed of on site or at an approved waste

disposal facility.

Container Disposal : Container Refilling and Disposal:

Refer to the product label for instructions.

Do not transport if this container is damaged or leaking.

In the event of a major spill, fire or other emergency, call 1-800-441-3637 day

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or night.

SECTION 14. TRANSPORT INFORMATION

IATA C **UN** number : 3077

> Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

> > : 9

(Chlorimuron ethyl, Tribenuron methyl)

Class

: 111 Packing group Labelling No. : 9MI

IMDG : 3077 UN number

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (Chlorimuron ethyl, Tribenuron methyl)

Class : 111 Packing group Labelling No. : 9

Marine pollutant : yes (Chlorimuron ethyl, Tribenuron methyl)

Not regulated as a hazardous material by DOT.

SECTION 15. REGULATORY INFORMATION

SARA 313 Regulated

Chemical(s)

: Tribenuron methyl , Chlorimuron ethyl

Title III hazard : Acute Health Hazard: Yes Chronic Health Hazard: No classification

Fire: No

Reactivity/Physical hazard: No

Pressure: No

EPA Reg. No. : 352-635

In the United States this product is regulated by the US Environmental

Protection Agency (EPA) under the Federal Insecticide, Fungicide and

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Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at

a concentration of 1% or more (0.01% for Special Hazardous

Substances): Kaolin, Sucrose

SECTION 16. OTHER INFORMATION

		NFPA	HMIS
Health	:	1	1
Flammability	:	1	1
Reactivity/Physical hazard	:	0	0

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Contact person : DuPont Crop Protection, Wilmington, DE, 19898, Phone: 1-888-638-7668

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