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MATERIAL SAFETY DATA SHEET

TM DuPont Registered Trademark
N/R In Product Identification section means Not Regulated as a Dangerous Good and no UN number is allocated.

Infosafe No: DU000

ISSUED DUPONT 1/12/98

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PRODUCT: DUPONT CUT-OUT[®] BRUSH CONTROLLER

Not Classified as Hazardous According to Criteria of WorkSafe Australia

PRODUCT IDENTIFICATION

UN No: N/R Poisons: S5 (Fed)

Tradenames: Cut-OutTM Brush Controller
Manuf.: DuPont
ManCode:

Use:
For the control of certain brush species in pastures, rights of way, commercial and industrial areas.

Ingredients:	CAS No:	Proportion:
Metsulfuron methyl	74223-64-6	6.32 %
Glyphosate (mono-ammonium salt)	114370-14-8	76.05 %
Inert Ingredients		17.63 %

Physical Description / Properties

Appearance:
Odour: Odourless.
Colour: White to fawn.
Form: Solid, dry flowable granule

HEALTH HAZARD INFORMATION

Acute Effects

Eye:
In rabbit, mild to moderate corneal irritation in unwashed eyes and mild conjunctival irritation in washed eyes.
All effects reversed in 7 days.

Skin:
Low toxicity by contact. May cause mild irritation, but not classified as a primary skin irritant or sensitiser.
Repeated dermal exposure may lead to skin irritation with discomfort or rash.

Inhaled:
May irritate throat.

Swallowed:
Very low toxicity by ingestion.

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PRODUCT: DUPONT CUT-OUT[®] BRUSH CONTROLLER**HEALTH HAZARD INFORMATION: (Continued)****Chronic Effects**

None established for formulated product

Metsulfuron methyl component:

Animal testing indicates that metsulfuron methyl does not have carcinogenic, developmental or reproductive effects. There is a report indicating that metsulfuron methyl produced genetic damage in a mammalian cell culture test, however, other tests with metsulfuron methyl in bacterial and mammalian cell cultures and in animals did not produce genetic damage. The weight of evidence suggests that metsulfuron methyl does not cause genetic damage. Long term administration caused body weight loss.

Glyphosate component:

Patch testing of guinea pigs with the mono-ammonium salt of glyphosate produced no irritation following initial application or during subsequent repeated exposures in the induction phase. On challenge, animals did not exhibit a positive dermal response. The mono-ammonium salt of glyphosate is not considered a dermal sensitising agent in the guinea pig. Glyphosate has been tested in mutagenicity, teratogenicity, and reproductive, acute, sub-chronic and chronic toxicity studies.

Other Health Effects:

No data is available to confidently predict the effects of over exposure to humans. Dermal contact and inhalation are expected to be the primary routes of occupational exposure to this material. Occupational exposure (limited experience) has not been reported to produce any significant adverse health effects. On the basis of available information, exposure to this material is not expected to produce significant adverse health effects when the recommended safety precautions are followed.

First Aid

Eye:

In cases of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek Medical attention.

Skin:

In case of contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing and wash skin thoroughly. Wash contaminated clothing before use.

Inhaled:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek Medical attention.

Swallowed:

If poisoning occurs, contact a doctor or Poisons Information Centre. If swallowed, and if more than 15 minutes from a hospital induce vomiting, preferably using Ipecac Syrup APF.

Advice to Doctor:

No specific requirements. Treat symptomatically.

Toxicity Data:

Metsulfuron methyl component:

Acute Oral LD₅₀ (rat): > 5000 mg/kg

Acute Dermal LD₅₀ (rabbit): > 2000 mg/kg

Inhalation LC₅₀ (rat): > 5 mg/L air

Glyphosate component:

Acute Oral LD₅₀ (rat): 4613 mg/kg

Acute Dermal LD₅₀ (rabbit): > 5000 mg/kg

Inhalation LC₅₀ (rat): > 1.9 mg/L air

PRODUCT: DUPONT CUT-OUT[®] BRUSH CONTROLLER**PRECAUTIONS FOR USE**

Exposure Standards:

None established for formulated product.

Metsulfuron methyl:

TWA (WorkSafe) Dusts not otherwise classified 10mg/m³

AEL (DuPont) 10 mg/m³ (8 and 12 hr TWA)

TLV (ACGIH): none established

Glyphosate:

TLV (ACGIH): Total 10 mg/m³

Respirable 5 mg/m³

Engineering Controls:

Use only with adequate ventilation.

Personal Protection:

Harmful if swallowed. Will irritate the eyes and skin. Avoid skin and eye contact. DO NOT inhaling the vapour, or spray mist. When preparing product for use, wear face shield or goggles.

Wear impervious gloves when handling undiluted material. Where repeated or prolonged skin contact may occur, wear full body clothing and impervious gloves to prevent skin contact. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Flammability:

Not a fire and explosion hazard.

Environment:

DO NOT contaminate any body of water by spraying, cleaning of equipment or disposal of waste.

96hr LC₅₀ (rainbow trout and bluegill sunfish): > 150 mg/L (metsulfuron methyl)

LD₅₀ (mallard duck): > 2510 mg/kg (metsulfuron methyl)

LC₅₀ (bobwhite quail): > 5620 mg/kg (metsulfuron methyl)

SAFE HANDLING INFORMATION

Storage and Transport:

Store in the closed, original container in a dry, well ventilated area, as cool as possible out of direct sunlight. DO NOT expose product to wet conditions. Keep from contact with fertilisers, fungicides and seeds.

Spills and Disposal:

Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with cleanup. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. DO NOT flush with water. Dyke spill. Prevent material from entering the sewers, waterways, or low areas. Shovel or sweep up. Thoroughly scrub floor or other impervious surfaces with a strong industrial-type detergent solution and rinse with water. If spill area is on ground near trees or other valuable plants remove the top 50 mm of soil after initial cleanup. Do not reuse container. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State and local regulations. Puncture and crush container and dispose of in a sanitary landfill or by other approved methods. Do not burn empty containers or product.

Reactivity Data:

Stable at normal temperatures and storage conditions. Hazardous polymerisation will not occur. Hazardous decomposition products are carbon monoxide, carbon dioxide, nitrogen oxides, oxides of phosphorous. Non-corrosive to stainless steel, polyethylene and plastics. Corrosive to mild steel, galvanised steel and zinc. DO NOT MIX, STORE OR APPLY THE PRODUCT IN GALVANISED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. The product or spray solutions react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture that can flash or explode if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

PRODUCT: DUPONT CUT-OUT[®] BRUSH CONTROLLER

SAFE HANDLING INFORMATION: (Continued)

Fire/Explosion Hazard:

Not a fire and explosion hazard. Like most organic powders, or crystals, under severe dusting conditions, this material may form explosive mixtures in air. Evacuate personnel to a safe area. Wear self-contained breathing apparatus and full protective equipment. Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide (CO₂). On small fires, if area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the contamination hazard.

ADDITIONAL INFORMATION

Contact Points:

For sales, technical, and product related enquiries contact DuPont's North Sydney office on (02) 9923 6111. Outside the Sydney metropolitan area 1800 252 997 is a toll free number to North Sydney Office. To assist communications, ask for the Customer Service, Technical, or Marketing personnel for the product family relative to the inquiry.

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.