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MATERIAL SAFETY DATA SHEET

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

Infosafe No: DUPEY

ISSUED DUPONT 1/12/98

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PRODUCT: DUPONT GLEAN® CEREAL HERBICIDE

Not Classified as Hazardous According to Criteria of WorkSafe Australia

PRODUCT IDENTIFICATION

UN No: N/R

Poisons: S5 (Fed)

Tradenames:

Manuf.:

ManCode:

Glean® Cereal Herbicide

DuPont

Glean® Toss-N-Go® Cereal Herbicide

DuPont

Use:

For the control of Annual (Wimmera) Ryegrass and certain broadleaved weeds in winter cereal crops.

Ingredients:

CAS No:

Proportion:

Chlorsulfuron

64902-72-3

75%

Inert Ingredients

25%

Physical Description / Properties

Appearance:

Odour: None

Colour: White to tan

Form: Solid, Dry flowable granule

Other Properties:

Bulk density: 0.66 g/cm³

Chemical family: Sulfonylurea

HEALTH HAZARD INFORMATION

Acute Effects

Eyes:

Based on animal studies, overexposure to chlorsulfuron by eye contact initially include eye irritation with discomfort, tearing or blurring of vision.

Skin:

Slightly to moderately toxic by contact. Not a skin irritant or a skin sensitiser.

Inhaled:

None specified.

Swallowed:

Slightly toxic by ingestion.

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PRODUCT: DUPONT GLEAN® CEREAL HERBICIDE**HEALTH HAZARD INFORMATION (Continued)****Chronic Effects**

None established for finished product.

Chlorsulfuron: Administration of 0, 100, 500 and 2500 ppm chlorsulfuron to male and female young adult dogs for 6 months produced a no-observable-effect level (NOEL) of 2500 ppm in the diet. No compound-related changes in nutritional, clinical, biochemical, gross or histopathological observations were made. Administration of 0, 100, 500 and 2500 ppm chlorsulfuron to male and female weanling rats for 2 years produced a NOEL of 100 ppm in the diet based on mild to moderate reduction in mean body weights and weight gains in male rats from the higher dose groups. Oncogenicity studies conducted with male and female mice by dietary administration of 0, 100, 500 and 5000 ppm chlorsulfuron for 2 years showed no compound-related behavioural, clinical, haematological, gross pathological or histological abnormalities. Chlorsulfuron was not oncogenic at any level. The overall NOEL was 500 ppm as a body weight reduction occurred in the 5000 ppm level. The dietary presence of chlorsulfuron at 500 ppm had no adverse effect on the reproduction or lactation performance of young adult rats (3 generation, 2 litters per generation). Not teratogenic in rats at 2500 ppm or up to 75 mg/kg in rabbits. Not mutagenic in Ames bacterial assay, Chinese Hamster Ovary mammalian cell assay, rat dominant lethal assay, *in vitro* cytogenetic assay, or DNA repair assay.

Other Health Effects:

No data is available to confidently predict the effects of overexposure to humans, however based on animal studies, human health effects of overexposure by inhalation, ingestion, or skin or eye contact may initially include: eye irritation with discomfort, tearing, or blurring of vision, or irritation of the upper respiratory passages.

First Aid**Eyes:**

In case 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. Wash contaminated clothing before re-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 swallowed and if more than 15 minutes from a hospital, induce vomiting preferably using Ipecac Syrup APF. Never give anything by mouth to an unconscious person. Seek Medical attention.

Advice to Doctor:

No specific requirements. Treat symptomatically.

Toxicity Data:

None established for formulated product.

Chlorsulfuron:

Acute Oral LD₅₀ (rat): 3053 mg/kg (male); 2341 mg/kg (female)

Dermal LD₅₀ (rabbit): > 2000 mg/kg

PRODUCT: DUPONT GLEAN® CEREAL HERBICIDE**PRECAUTIONS FOR USE**

Exposure Standards:

None established for formulated product.

Chlorsulfuron: AEL (Du Pont): 10 mg/m³ (8 and 12 hr TWA)

Engineering Controls:

Use only with adequate ventilation.

Personal Protection:

Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. Wash hands after use. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Wash protective clothing after each day's use.

Flammability:

May be ignited by heat or open flame. Keep away from heat, sparks and flames.

Environment:

96 hr LC₅₀ (rainbow trout): > 250 ppm;

96 hr LC₅₀ (fathead minnow): > 300 ppm

SAFE HANDLING INFORMATION

Storage and Transport:

Keep container tightly closed. DO NOT consume food, drink or tobacco in the areas where they may become contaminated with this material. Store in well ventilated area. Use a totally enclosed system.

Spills and Disposal:

Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with cleanup. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dyke spill. Prevent liquid from entering sewers, waterways or low areas. Shovel or sweep up. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State, and local regulations. Remove non-useable solid material and/or contaminated soil, for disposal in an approved and permitted landfill. DO NOT flush to surface water or sanitary sewer system. DO NOT reuse container. Triple rinse the container, then puncture and dispose of in a sanitary landfill, or by other approved methods. Do not burn empty container or product.

Reactivity Data:

Stable at normal temperatures and storage conditions. No incompatibilities reasonably foreseeable.

Decomposes with heat. Polymerisation will not occur.

Fire/Explosion Hazard:

Flammable Limits in Air, % volume: LEL 0.090 g/L

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.