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## MATERIAL SAFETY DATA SHEET

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

ISSUED DUPONT 11/01/05

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### PRODUCT: DUPONT SINBAR® HERBICIDE

*Hazardous According to Criteria of NOHSC.*

#### PRODUCT IDENTIFICATION

UN No: N/R

Poisons: UNSCH (Fed)

Tradenames:  
Sinbar® herbicide

Manuf.:  
DuPont

ManCode:

Use:

For selective weed control in apples, peaches, seed lucerne and peppermint.

Ingredients:

CAS No:

Proportion:

Terbacil

5902-51-2

80 %

Inert Ingredients

20 %

#### Physical Description / Properties

Appearance:

Odour: Odourless  
Colour: Off-white  
Form: Solid powder

Other Properties:

Bulk density: 330-380 kg/m<sup>3</sup>  
Chemical Family: Uracil  
pH: 8.5 – 9.5 at 25°C (at 20g/L H<sub>2</sub>O)

#### HEALTH HAZARD INFORMATION

##### Acute Effects

Eye:

Not classified as hazardous by eye contact according to the criteria of NOHSC. Administration of the dry technical to rabbit eyes produced mild conjunctival irritation that was reversible within 4 hours. No corneal or iritic effects were noted. A 10 % propylene glycol suspension produced iritis and mild conjunctivitis that was reversible within 48 hours. No corneal injury was noted.

Skin:

Not a skin irritant according to the criteria of NOHSC. Repeated applications of 5,000 mg/kg (80% wettable powder) to abraded rabbit skin once a day, 5 days a week for 3 weeks, produced no adverse clinical or pathological effects. Technical terbacil produced neither irritation nor sensitisation when applied as a 15 % solution to intact and abraded guineapig skin.

Inhaled:

4 hr LC<sub>50</sub> for terbacil is greater than 5.3 mg/L. Not classified as hazardous by inhalation according to the criteria of NOHSC.

Swallowed:

Moderate toxicity by ingestion. Classified as hazardous by ingestion according to the criteria of NOHSC.

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**PRODUCT: DUPONT SINBAR® HERBICIDE**

## HEALTH HAZARD INFORMATION: (Continued)

**Chronic Effects**

In a 2-year feeding study (rat), the no observable effect level (NOEL) was 50 ppm. Hepatocellular hypertrophy was transitory at 250 ppm and persistent at the highest dose, which was escalated stepwise from 2500 to 10000 ppm during the study. Decreased body weight was also noted at 2500 - 10000 ppm. No evidence of compound-related oncogenicity was observed. In a 2-year feeding study (mouse), the NOEL was 50 ppm. Hepatocellular hypertrophy was noted in males at 1250 ppm and in both sexes at the highest dose, which was increased from 5000 to 7500 ppm at week 54. An increased incidence of hyperplastic liver nodules was also noted in males at 5000-7500 ppm. No compound related oncogenic effects were observed. In a 2-year feeding study (dog), the NOEL was 250 ppm; a slight increase in relative liver weight was noted at the highest dose which was escalated stepwise from 2500 to 10000 ppm during the study. No adverse effect on reproduction (rat) or lactation performance was observed during a 3-generation, 6-litter study at 0, 50, and 250 ppm. No abnormal histopathology was noted on examination of the F3B litters at weaning. In a dietary study (rat) at 0, 250, 1250 and 5000 ppm, terbacil was not teratogenic at any dose tested but produced embryotoxic effects at 1250 and 5000 ppm. Not mutagenic in the Chinese hamster ovary cell point mutation assay.

**Other Health Effects**

May irritate the nose, throat and skin. Overexposure to terbacil by eye contact may initially include eye irritation with discomfort, tearing, or blurring of vision. Based on data from tests in animals, ingestion of high doses may include abnormal liver function as detected by laboratory test.

**First Aid**

## Eye:

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

## Skin:

In case of contact, wash skin with soap and plenty of water. Wash contaminated clothing before reuse.

## Inhaled:

No specific intervention is indicated, as the compound is not likely to be hazardous by inhalation.

## Swallowed:

If swallowed, seek medical attention.

**Advice to Doctor:**

No specific requirements. Treat symptomatically.

**Toxicity Data:**

Acute Oral LD<sub>50</sub> (rat): > 1582  
Acute Dermal LD<sub>50</sub> (rabbit): > 5000 mg/kg  
Acute Inhalation (4 hr) (rat): > 5.3 mg/L

**PRECAUTIONS FOR USE**

## Exposure Standards:

TLV (ACGIH): None established

AEL\* (DuPont): 5 mg/m<sup>3</sup> (8 hr and 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.

## Engineering Controls:

Use only with adequate ventilation.

## Personal Protection:

Avoid contact with eyes and skin. Avoid breathing spray mist, vapours or dust. Wear protective goggles, rubber gloves, boots and overalls during handling and mixing. Wash hands with soap and water before eating, drinking or smoking.

## Flammability

Not a fire and explosion hazard. May be ignited by heat or open flame.

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**PRODUCT: DUPONT SINBAR® HERBICIDE****PRECAUTIONS FOR USE (Continued)****Environment:**

96 hr LC<sub>50</sub> (rainbow trout ): 46.2 mg/L  
96 hr LC<sub>50</sub> (bluegill sunfish): 102.9 mg/L  
48 hr LC<sub>50</sub> (daphnia): 68 mg/L  
Oral LC<sub>50</sub> (bobwhite quail): > 715 mg/kg  
Oral LD<sub>50</sub> (mallard duck): > 5000 mg/kg (terbacil)  
Bioaccumulation: log POW 1.91 (terbacil)  
96 hr EC<sub>50</sub> (green algae): 0.03 mg/L

**SAFE HANDLING INFORMATION****Storage and Transport:**

Avoid dust generation. **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. If spill area is on ground near trees or other valuable plants, remove top 50 mm of soil after initial cleanup. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State, and local regulations. **DO NOT** flush to surface water or sanitary sewer system. Triple or preferably pressure rinse container. Break, crush or puncture and bury clean containers at a local authority landfill. Empty containers and product should not be burnt.

**Reactivity Data:**

Stable at normal temperatures and storage conditions. No incompatibilities reasonably foreseeable. Decomposition will not occur. Polymerisation will not occur.

**Fire/Explosion Hazard:**

Flammable Limit in Air, % by volume: LEL: 0.077 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 (CO<sub>2</sub>). 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.

**Reactivity Data:**

Stable at normal temperatures and storage conditions. Decomposition will not occur. Polymerisation will not occur.

**REGULATORY INFORMATION**

Package and Labelling: UNSCH (Fed)  
Contains: Terbacil 80%

**Risk Phrase:**

R22 Harmful if swallowed.

**SOURCE INFORMATION****Technical Data:**

Source MSDS: US-DU003088, revised 19/08/2003  
EU000000605/N/NS, revised 17/01/2003

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**PRODUCT: DUPONT SINBAR® HERBICIDE**

**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.