



SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC) or
1-866-374-1975 (Tessengerlo Kerley)

1. IDENTIFICATION

PRODUCT NAME: Sinbar Herbicide WDG Organic
DESCRIPTION: substituted uracil
EPA No.: 30082 Pest Control Products Act
Chemical Characterization: Substance
COMPANY IDENTIFICATION: Tessengerlo Kerley, Inc.
 2910 N. 44th Street, Suite 100
 Phoenix, AZ 85018-7272
 (602) 889-8300

2. HAZARD IDENTIFICATION

WARNING

Causes eye irritation (H320)
 May be harmful if swallowed (H303)
 May be harmful in contact with skin (H313)
 May be harmful if inhaled (H333)
 Very toxic to aquatic life with long lasting effects (H400+H410)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Eye Damage/Irritation	2B	None	--
Acute toxicity, oral	5		
Acute toxicity, dermal	5	Environmental Hazards	Category
Acute toxicity, inhalation	5	Hazardous to the Aquatic Environment – Acute	1
		Hazardous to the Aquatic Environment – Chronic	1

HAZARDS NOT REQUIRING CLASSIFICATION

None

PRECAUTIONARY STATEMENTS

Wash hands and exposed skin thoroughly after handling. Do not touch eyes. Wear protective gloves. (P264+P265+P280)

Avoid breathing dust. Use only outdoors or in a well-ventilated area. (P261+P271)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye persists: Get medical help. (P305+P351+P338+P337+P317)

IF SWALLOWED: Get medical help. (P301+P317)

IF ON SKIN: Get medical help. (P302+P317)

IF INHALED: Get medical help. (P304+P317)

Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391)

Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
Terbacil	2,4(1H,3H)-Pyrimidinedione, 5-chloro-3-(1,1-dimethylethyl)-6-methyl-	5902-51-2	80.0%

NOTE: Values are not product specifications.

4. FIRST AID MEASURES

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 1-866-374-1975. See Label for Additional Precautions and Directions for Use.

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 IN EYES: 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.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

5. FIREFIGHTING MEASURES

Fire and Explosion Hazards: May be ignited by heat or open flame. Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.

Extinguishing Medium: Use firefighting media appropriate for all combustibles involved in the fire. For fires involving only this product and its associated containers, water, dry chemical, extinguishing foam, and carbon dioxide are compatible extinguishing agents.

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

Hazardous Combustion Products: No data available

NFPA Ratings: Health – 1 / Flammability – 0 / Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document. Ensure adequate ventilation.

Environmental Precautions: Contain spillage and minimize spread. Dig up heavily contaminated soil and collect in containers for disposal. Keep out of drains, sewers, ditches and water ways. Do NOT contaminate water when disposing of rinse waters.

Spill Cleanup: Avoid creating dust during cleanup. Sweep, scoop or shovel spilled material and place into suitable closed containers for reuse or disposal. After decontamination, spill area can be washed with water. Collect washwater for approved disposal. Place leaking containers in oversize leakproof drums for transport.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin or clothing.

Storage: Store product in original container only. Store in a cool, dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: If handling indoors, provide local exhaust ventilation.

Protective Clothing: Wear long-sleeved shirt and long pants, chemical resistant gloves made of any waterproof material such as polyethylene or polyvinylchloride shoes plus socks.

General: Immediately remove all soiled and contaminated clothing. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and was PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	gray granules	pH:	8.64 (at 25°C)
Melting point:	not available	Kinematic viscosity:	not available
Boiling point:	not available	Solubility (water):	dispersible
Flammability:	not available	Partition coefficient:	not available
Flammability limits (upper/lower):	not available	Vapor pressure:	not available
Flash point (cc):	not available	Bulk Density:	0.56 g/mL (at 23°C)
Auto-ignition temperature:	not available	Relative vapor density:	not available
Decomposition temperature:	not available	Particle characteristics:	not available
Odor:	odorless		

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Exposure to extreme heat and open flames.

CHEMICAL STABILITY: Stable under all normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid all sources of ignition, heat or open flame. Avoid prolonged exposure to excessive temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: No data available.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (rat LD₅₀): >5,000 mg/kg (female rats)

DERMAL TOXICITY (rabbit LD₅₀): > 5,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): 5.3 mg/L (4 hours)

EYE IRRITATION: Moderate eye irritant in animals

SKIN IRRITATION: Slight skin irritant in animals

SKIN SENSITIZATION: Not a contact sensitizer (guinea pigs)

CARCINOGENICITY:

EPA: Group E - No evidence of carcinogenicity in animal

ACGIH: Not Listed **NTP:** Not Listed

IARC: Not Listed **OSHA:** Not Listed

DEVELOPMENTAL TOXICITY: Maternal and embryo-fetal toxicity only was demonstrated at the 600 mg/kg dose level. Thus, terbacil was not demonstrated to represent a unique hazard to the conceptus.

REPRODUCTIVE TOXICITY: There was no significant difference between the control and experimental groups in pregnancy rate or in the number of nidations, resorptions, and death.

MUTAGENICITY / GENOTOXICITY: Not mutagenic or genotoxic.

12. ECOLOGICAL INFORMATION

Terbacil is highly toxic to vascular and non-vascular plants and to aquatic invertebrates.

The following information is for the active ingredient, Terbacil:

AQUATIC TOXICITY - Acute

Rainbow Trout (96-hour LC₅₀): 46.2 mg/L

Bluegill Sunfish (96-hour LC₅₀): 102.9 mg/L

Daphnia (48-hour EC₅₀): 68 mg/L

Algae (72-hour EC₅₀): 0.018 mg/L

AVIAN TOXICITY

Bobwhite Quail Oral (14-day LD₅₀): > 2,250 mg/kg

Mallard Duck Dietary (LC₅₀): > 5,000 mg/kg

PERSISTENCE AND DEGRADABILITY

t_{1/2} in water: 29 to 54 days; photolytic degradation

t_{1/2} in soil: 122 to 720 days; photolytic degradation

12. ECOLOGICAL INFORMATION (Continued)

BIOACCUMULATIVE POTENTIAL

Static test in bluegills with 96 h depuration ($< 8 \mu\text{g/g}$ to $< 0.01 \mu\text{g/g}$). Not expected to bioaccumulate in fish tissues.

MOBILITY IN SOIL

K_{ad} : 0.39 to 1.3 ml/g

K_{oc} : 44 to 61 ml/g

Due to its low sorption affinity for soil, terbacil is expected to be very mobile in soil.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. See container label for container handling and disposal instructions.

14. TRANSPORT INFORMATION

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

US-DOT:

Containers \leq 11 lbs. (5 kg):

Not regulated

Containers $>$ 11 lbs. (5 kg):

UN3077, Environmentally hazardous substance, solid, N.O.S. (terbacil), 9, PG III, Marine Pollutant

DOT Emergency Guide: 171

IMDG:

UN3077, Environmentally hazardous substance, solid, N.O.S. (terbacil), 9, PG III, Marine Pollutant

IATA:

UN3077, Environmentally hazardous substance, solid, N.O.S. (terbacil), 9, PG III, Marine Pollutant

EMS Number:

F-A, S-F

Additional Transportation Information: In accordance with 49 CFR 171.4(c), non-bulk packagings (max capacity of 119 gal. (450 L) or less for liquids or 882 lbs. (400 kg) or less for solids) transported by motor vehicle, rail car or aircraft are excepted from all Marine Pollutants regulations in 49 CFR and therefore treated as non-hazardous material. All bulk shipments or any shipment transported partially or entirely by vessel are treated as regulated Marine Pollutants and are shipped according to the requirements listed.

15. REGULATORY INFORMATION

FIFRA –

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the GHS classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

15. REGULATORY INFORMATION (Continued)

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning of equipment or disposing of equipment washwaters or rinsate.

Terbacil has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion. This chemical also has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 355 (extremely hazardous substances):

Not listed.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate (Acute), Delayed (Chronic)


Section 313 (Toxic Release Reporting-Form R):

<u>Chemical name</u>	<u>CAS No.</u>	<u>Concentration</u>
Terbacil	5902-51-2	80.0%

CERCLA/SUPERFUND:

RQ (Reportable Quantity): Not applicable

California Proposition 65

 **WARNING:** This product can expose you to Terbacil, which is known to the State of California to cause developmental toxicity. For more information, go to www.P65Warnings.ca.gov.

RCRA Classification

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

The information and recommendations contained herein are provided in good faith and are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein.

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