

DAIKON™

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

1. IDENTIFICATION

PRODUCT NAME: Daikon
DESCRIPTION: A solid herbicide
EPA REG. NO.: 91234-217
COMPANY IDENTIFICATION: Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

May be harmful if swallowed (H303)

Very toxic to aquatic life (H400)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Acute Toxicity, Oral	5	None	-

Environmental Hazards	Category
Hazardous to the aquatic environment, short-term	1

HAZARDS NOT REQUIRING CLASSIFICATION

None.

PRECAUTIONARY STATEMENTS

Avoid release to the environment not in accordance with the product label. (P273)

IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell. (P301+P312)

Collect spillage. (P391)

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Halosulfuron-methyl	1H-Pyrazole-4-carboxylic acid, 3-chloro-5-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-1-methyl-, methyl ester	100784-20-1	11.0-13.5%
Dicamba, sodium salt	Benzoic acid, 3,6-dichloro-2-methoxy-, sodium salt (1:1)	1982-69-0	53.0-57.0%
Inert Ingredients	N/A	Trade Secret	31.0-33.0%

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. 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 emergency medical assistance, call SafetyCall: 1-844-685-9173. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: 1-800-424-9300.

IF SWALLOWED: Call a poison control center or doctor immediately for further treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything to an unconscious person.

5. FIREFIGHTING MEASURES

Flash Point: Not applicable

Fire and Explosion Hazards: None known.

Extinguishing Medium: Fog, foam, dry chemical, or carbon dioxide (CO₂).

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. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff.

Hazardous Combustion Products: No data available.

NFPA Ratings: Health – 1 / Flammability – 1 / 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.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain or soil. Contain contaminated water.

Spill Cleanup: Clean up spill immediately. **If spill is on land:** Reduce airborne dust. Vacuum or sweep up material and place in a chemical waste container. Wash spill area water. Pick up wash liquid with absorbent material and place in chemical waste container. **If spill is in water:** Stop the source of the release. Contain and isolate to prevent further release into soil, surface water and ground water. Absorb spill with inert material and remove contaminated water for treatment or disposal.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Storage: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of the children, preferably in a locked storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Applicators, and other handlers must wear long-sleeved shirt and long pants, shoes and socks.

General: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	off-white columnar granule
Odor:	odorless
Melting/freezing point:	not available
Boiling point/Boiling range:	not available
Flammability:	not available
Flammability limits (upper/lower):	not available
Flash point:	not available
Auto-ignition temperature:	not available
Decomposition temperature:	not available
pH:	7.49 (@ 20.7°C)
Viscosity:	not available
Solubility:	not available
Partition coefficient:	not available
Vapor pressure:	not available
Tap Density:	0.542 g/mL
Bulk Density:	not available
Relative vapor density:	not available
Particle characteristics:	not available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Temperatures over 120°F and moist conditions.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Reducing agents and acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, sulfur oxides, carbon monoxide, and nitrogen oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

The following data is from a similar substance:

ORAL TOXICITY (rat LD₅₀): >2,606 mg/kg

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

INHALATION TOXICITY (rat LC₅₀): > 2.17 mg/L (4-hr)

EYE IRRITATION: Slightly irritating (Rabbit)

SKIN IRRITATION: Slightly irritating (Rabbit)

SKIN SENSITIZATION: No sensitizing effects known

CARCINOGENICITY:

EPA: Not likely to be carcinogenic to humans (Dicamba)

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

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

MUTAGENIC TOXICITY: No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

REPRODUCTIVE TOXICITY: Not known to cause reproductive or birth defects at normal exposure levels.

12. ECOLOGICAL INFORMATION

This product is toxic to non-target vascular plants.

The following information is for the active ingredient, halosulfuron-methyl:

AQUATIC TOXICITY

Fish (Rainbow Trout) (96-hour LC₅₀): >131 mg/L

Fish (Bluegill Sunfish) (96-hour LC₅₀): >118 mg/L

Daphnia Magna (Water Flea) (48-hour LC₅₀): >107 mg/L

Algae (120-hour EbC₅₀): 5.3 µg/L

AVIAN TOXICITY

Bobwhite Quail (5-day LC₅₀): >5,620 mg/kg (diet)

Mallard Duck (5-day LC₅₀): >5,620 mg/kg (diet)

HONEY BEE TOXICITY

Bee (48-hour LC₅₀): >100 µg/Bee (contact)

This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow. This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used must be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US-DOT: Not regulated

IMDG:

Containers ≤ 11 lbs. (5 kg) in strong outer packaging:

Not regulated

Containers > 11 lbs. (5 kg) or containers not in strong outer packaging:

Shipped internationally by vessel: UN3077, Environmentally hazardous substance, solid, N.O.S. (contains halosulfuron-methyl and sodium dicamba), 9, PG III, Marine Pollutant

IATA:

Containers ≤ 11 lbs. (5 kg) in strong outer packaging:

Not regulated

Containers > 11 lbs. (5 kg) or containers not in strong outer packaging:

Shipped by air: UN3077, Environmentally hazardous substance, solid, N.O.S. (contains halosulfuron-methyl and sodium dicamba), 9, PG III, Marine Pollutant

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.

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 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 or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to non-target vascular plants. 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 equipment or disposing of equipment washwaters or rinsate.

Surface Water Label Advisory

This product is toxic to non-target vascular plants. 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 equipment or disposing of equipment washwaters or rinsate.

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.

SARA Title III – Section 302 Extremely Hazardous Substances
Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate (acute), Delayed (chronic)

SARA Title III – Section 312 Threshold Planning Quantity

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III – Section 313 Reportable Ingredients

Sodium dicamba (CAS No. 1982-69-0): 53-57%

CERCLA Reportable Quantity (RQ) –

None

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

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

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

To the extent consistent with applicable law, neither Atticus, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ATTICUS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.0

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