



SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Cavallo 4 SC
DESCRIPTION: A liquid herbicide
EPA REGISTRATION NUMBER: 92647-3-91234
COMPANY IDENTIFICATION: Atticus, LLC
5000 CentreGreen Way, Suite 100
Cary, NC 27513

2. HAZARDS IDENTIFICATION

WARNING

Causes mild skin irritation
Toxic to aquatic life

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Mesotrione	2-[4-(methylsulfonyl)-2-nitrobenzoyl]-1,3-cyclohexanedione	104206-82-8	40.0%

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 24-Hour Medical Emergency Assistance (Human or Animal) call: 1-844-685-9173. For Chemical Emergency Assistance (Spill, Leak, File, or Accident) call CHEMTREC: 1-800-424-9300.

IF ON SKIN OR CLOTHING: If skin irritation occurs: Get medical advice/attention.

5. FIRE-FIGHTING MEASURES

Flash Point: > 100°C (> 212°F)

Fire and Explosion Hazards: Thermal decomposition can lead to release of irritating and toxic gases and vapors including oxides of carbon, nitrogen, and sulfur.

Extinguishing Medium: Carbon dioxide, dry chemical, foam, water fog.

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.

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate unprotected and unnecessary personnel from area of spill. Keep people away from and upwind of spill/leak. Wear personal protective equipment as described in Section 8 of this document.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.

Spill Cleanup: Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with skin, eyes, or clothing.

Storage: Do not contaminate water, food, or feed by storage and disposal. Keep container tightly closed when not in use. Keep away from heat and flame. Do not store near seed, fertilizers, or foodstuffs. Can be stored at temperatures as low as minus 20°F. Keep away from heat and flame.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls: Use assisted ventilation in enclosed spaces if needed, especially storage areas. Ensure facilities storing this product are equipped with an eyewash station and safety shower.

Protective Clothing: Wear long sleeved shirt and long pants, chemical-resistant gloves (such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, poly-ethylene, polyvinyl chloride (PVC) ≥ 14 mils, and viton ≥ 14 mils), and shoes plus socks.

General: 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

PHYSICAL STATE:	Opaque beige liquid
ODOR:	Characteristic
FLASHPOINT:	$> 100^{\circ}\text{C}$ ($> 212^{\circ}\text{F}$)
VAPOR PRESSURE:	~ 17 mmHg @ 20°C
RELATIVE DENSITY:	1.16
SOLUBILITY:	Dispersible in water

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Elevated temperature, storage near to reactive materials

CHEMICAL STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizing and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can lead to release of irritating and toxic gases and vapors include oxides of nitrogen, carbon, and sulfur.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (RAT LD₅₀):	Information not available
DERMAL TOXICITY (RAT LD₅₀):	Information not available
INHALATION TOXICITY (RAT LC₅₀):	Information not available
EYE IRRITATION:	Information not available
SKIN IRRITATION:	Repeated or prolonged contact may cause allergic reactions in very susceptible persons.
SKIN SENSITIZATION:	Information not available

CARCINOGENICITY:

EPA:	Not Listed	NTP:	Not Listed
ACGIH:	Not Listed	OSHA:	Not Listed
IARC:	Not Listed		

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

REPRODUCTIVE TOXICITY: No evidence of reproductive toxicity has been demonstrated.

12. ECOLOGICAL INFORMATION

The following information is for the active ingredient, Mesotrione:

AQUATIC TOXICITY

Rainbow Trout (96-hour LC ₅₀):	> 120 mg/L
Bluegill (96-hour LC ₅₀):	> 120 mg/L
Daphnia (48-hour EC ₅₀):	> 900 mg/L
Algae (EC ₅₀):	3.5 mg/L

AVIAN TOXICITY

Bobwhite Quail (LD ₅₀):	> 2000 mg/kg
Mallard Duck (Dietary LD ₅₀):	> 5200 mg/kg

OTHER TOXICITY

Bees (oral LD ₅₀):	> 11 $\mu\text{g}/\text{bee}$
Bees (contact LD ₅₀):	> 9.1 $\mu\text{g}/\text{bee}$

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited.

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 (shipped by land):

Containers < 119 gallons (450 L): Not regulated by DOT.

Containers ≥ 119 gallons (450 L):

DOT Shipping Name:	UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Mesotrione), 9, PG III
Emergency Response Guide:	171
Marine Pollutant:	Yes

IMDG (shipped by vessel):

UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Mesotrione), 9, PG III, Marine Pollutant

IATA (shipped by air):

UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Mesotrione), 9, PG III

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 absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes, or clothing.

Environmental Hazards

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

Surface Water Advisory

This product may contaminate water through drift or spray in wind. This product has a high potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

Physical or Chemical Hazards

Do not use or store near heat or open flame. Do not use with or store near any oxidizing or reducing agents.

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

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

None

CERCLA Reportable Quantity (RQ) –

None

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemicals known to the state of California to cause cancer or 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 indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

SDS Version: 1.0

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