

# BeQuest<sup>TM</sup>

## 4 SC

## SAFETY DATA SHEET

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

### 1. IDENTIFICATION

**PRODUCT NAME:** BeQuest 4 SC  
**DESCRIPTION:** A liquid herbicide  
**EPA REG. NO.:** 93930-26  
**COMPANY IDENTIFICATION:** Avalaire, LLC  
1705 Towanda Ave  
Bloomington, IL 61701

### 2. HAZARD IDENTIFICATION



#### WARNING

May cause an allergic skin reaction (H317)

May cause damage to organs through prolonged and repeated exposure (H373)

Suspected of damaging fertility or the unborn child (H361)

Toxic to aquatic life (H401)

#### HAZARD CLASSIFICATION

##### Health Hazards

Skin sensitization  
Specific target organ toxicity -repeated  
Reproductive toxicity

##### Category

1B  
2  
2

##### Physical Hazards

None

##### Category

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##### Environmental Hazards

Hazardous to the Aquatic Environment – Acute (short-term)

##### Category

1

#### HAZARDS NOT REQUIRING CLASSIFICATION

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

### PRECAUTIONARY STATEMENTS

Obtain, read, and follow all safety instructions before use. Do not breathe mist/spray. Wear protective clothing as described in Section 8. (P203+P260+P280)

Contaminated work clothing should not be allowed out of the workplace. (P272)

**IF ON SKIN:** Wash with plenty of water. If skin irritation or rash occurs: Get medical help. Specific treatment see Section 4 on this label. Take off contaminated clothing and wash it before reuse. (P302+P352+P333+P317+P321+P362+P364)

IF exposed or concerned, get medical advice. (P318)

Get medical help if you feel unwell. (P319)

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

Store locked up. (P405)

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

### 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%

**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 24-Hour Medical Emergency Assistance (Human or Animal) call: 1-984-465-4791 For Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) call CHEMTREC: 1-800-424-9300.

**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.

## 5. FIREFIGHTING 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 CONTROLS/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 wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	opaque beige liquid
<b>Odor:</b>	characteristic
<b>Melting / Freezing Point:</b>	no data available
<b>Boiling Point / Boiling Range:</b>	no data available
<b>Flammability:</b>	no data available
<b>Flammability Limits (upper/lower):</b>	no data available
<b>Flash Point:</b>	>100°C (>212°F)
<b>Auto-ignition Temperature:</b>	no data available
<b>Decomposition Temperature:</b>	no data available
<b>pH:</b>	no data available
<b>Kinematic Viscosity:</b>	no data available
<b>Water Solubility:</b>	dispersible in water
<b>Partition Coefficient:</b>	no data available
<b>Vapor Pressure:</b>	~17 mmHg @ 20°C
<b>Relative Density:</b>	1.20
<b>Relative Vapor Density:</b>	no data available
<b>Particle Characteristics:</b>	no data available

## 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 LD<sub>50</sub>):** Information not available

**DERMAL TOXICITY (LD<sub>50</sub>):** Information not available

**INHALATION TOXICITY (LC<sub>50</sub>):** Information not available

**EYE IRRITATION:** Information not available

**SKIN IRRITATION:** Information not available

**SKIN SENSITIZATION:** Positive contact sensitizer

### CARCINOGENICITY:

**EPA:** Not likely to be carcinogenic to humans (mesotrione)

**ACGIH:** Not Listed

**IARC:** Not Listed

**NTP:** Not Listed

**OSHA:** Not Listed

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

**REPRODUCTIVE/DEVELOPMENTAL TOXICITY:** The only ocular effects observed in mice following mesotrione exposure were seen in the two-generation reproduction toxicity study at relatively high doses. Opaque/cloudy eyes were noted in second generation offspring at approximately 300 mg/kg/day. Additional ocular effects were observed at a dose exceeding the limit dose (cloudy eyes in parental animals; cataractous changes in offspring) in addition to decreased body weights in offspring.



## 11. TOXICOLOGICAL INFORMATION *(continued)*

### TARGET ORGANS:

Mesotrione: eye, kidney, liver, gallbladder

## 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

Green algae (120-hour  $EC_{50}$ ): 0.84 mg/L

Lemna gibba (14-day  $EC_{50}$ ): 0.0048 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 µg/bee

Bees (contact  $LD_{50}$ ): > 9.1 µg/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:	Not regulated
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, 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 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.

### 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 Avalaire, 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.

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