

# Safety Data Sheet

## LIBERATOR 711

### Section 1 Identification

**Trade Name:** LIBERATOR 711  
**Product Identification:** 4386  
**Synonyms:** Diquat Dibromide solution  
**Product Use Description:**  
Herbicide

**General Info Phone:** (770) 424-7550  
**Emergency Phone:** (800) 255-3924

**Supplier:**  
**ATCO INTERNATIONAL**  
1401 BARCLAY CIRCLE SE  
MARIETTA, GA 30060

### Section 2 Hazards Identification

#### Classifications

Specific Target Organ Toxicity (repeated exposure) - Category 2  
Eye Irritation - Category 2B



Irritant

Health Hazard

**Signal Word:** Warning

#### Hazard Statements

Keep out of reach of children.  
Read label and SDS before use.  
Causes eye irritation  
May cause damage to organs through prolonged or repeated exposure.

#### Precautionary Statements

##### Prevention

Do not breathe mist/vapors/spray.  
Wear eye protection.  
Wash hands and face thoroughly after handling.  
Do not eat, drink or smoke when using this product.

##### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists get medical attention.  
Get medical advice/attention if you feel unwell.

##### Disposal

Dispose of contents and container in accordance with all local, regional, and national regulations.

##### Hazards Not Otherwise Specified

Not applicable

### Section 3 Composition

Trade Name: LIBERATOR 711  
SDS ID: SDS01167

SDS #: 4386  
Revision #: 1

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<u>Chemical Name</u>	<u>CAS #</u>	<u>Concentration</u> <u>% by Weight</u>
Diquat Dibromide	85-00-7	>=1 <= 2

### Section 4 First Aid

#### EMERGENCY OVERVIEW

WARNING. May be harmful if swallowed or inhaled. Eye irritant.

EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

SKIN: Wash with plenty of soap and water.

INHALATION: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

INGESTION: May be harmful if swallowed. Seek medical attention immediately.

### Section 5 Fire Fighting Measures

#### Suitable fire extinguishing media:

Use water spray, fog or foam.

#### Specific hazards arising from the chemical:

Containers may build pressure and rupture.

#### Hazardous thermal decomposition products:

Carbon Dioxide, Carbon Monoxide

#### Specific fire-fighting methods:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

#### Special protective equipment for fire fighters:

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.

### Section 6 Accidental Release Measures

#### Personal precautions:

Put on appropriate personal protective equipment (see section 8)

#### Environmental precautions and clean-up methods:

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Disperse vapors with water spray. Prevent runoff from entering drains, sewers, streams or other bodies of water. Absorb spill with inert material. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

### Section 7 Handling and Storage

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Do not use or store near heat, sparks or open flame. Store in a cool, dry place. Do not get in eyes, on skin or on clothing. Keep out of reach of children.

### Section 8 Exposure Controls/Personal Protection

Diquat Dibromide  
ACGIH TLV 0.5 mg/m<sup>3</sup>

**Eye Protection:** Wear safety glasses or goggles.

**Skin Protection:** To prevent repeated or prolonged contact, wear impervious gloves (made from rubber, nitrile or neoprene).

**Respiratory Protection:** When respiratory protection is required use an organic vapor cartridge. A respiratory program that meets OSHA's 29 CFR 1910.34 & ANSI Z88.2 requirements must be followed.

**Engineering Controls:** Good general ventilation required.

### Section 9 Physical and Chemical Properties

Property	Value		
Appearance	CLEAR LIQUID	Auto Ignition Temp	NOT AVAILABLE
Boiling Point	NOT AVAILABLE	Color	LIGHT YELLOW
Decomposition Temperature	NOT AVAILABLE	Evaporation Rate	NOT AVAILABLE
Explosive Limit Ranges	NOT AVAILABLE	Explosive Properties	NOT AVAILABLE
Flash Point	NONE	Melting/Freezing Point	NOT AVAILABLE
Odor	ODORLESS	Odor Threshold	NOT AVAILABLE
Other Information	VOC content (wt. %): 0	Oxidizing Properties	NOT AVAILABLE
Partition Coeff	NOT AVAILABLE	Physical State	LIQUID
Relative Density	1.0	Solubility (Water)	COMPLETE
Vapor Density	NOT AVAILABLE	Vapor Pressure	NOT AVAILABLE
Viscosity	NOT AVAILABLE	pH	6 - 8

### Section 10 Stability and Reactivity

<b>Reactivity :</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Chemical Stability :</b>	Stable under normal conditions.
<b>Incompatible Materials :</b>	Acids and strong oxidizers
<b>Conditions to Avoid :</b>	High temperatures
<b>Decomposition Products:</b>	CO, CO <sub>2</sub>

### Section 11 Toxicological Information

**Primary Route of Entry:** Skin contact

**Acute/Potential Health Effects:**

**EYES:** Cause eye irritation. Symptoms include stinging, tearing and redness.

**SKIN:** May cause skin irritation.

**INHALATION:** High vapor concentrations may be irritating to respiratory tract.

**INGESTION:** May cause headache, dizziness, incoordination, nausea, vomiting, diarrhea and general weakness.

**Chronic / Long Term Effects:** None known.

**Target Organ Effects:** Eyes, kidneys.

**Reproductive/Developmental Information:** No data.

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**Carcinogenic Information:** This material is not listed as a carcinogen by IARC, NTP or OSHA.

**Acute Toxicity Values:**

37% Diquat Dibromide: Oral LD50 (female rat) = 886 mg/Kg; Inhalion LC50 (rat) = 0.62 mg/l air - 4 hours.

### Section 12 Ecological Information

Diquat Dibromide:

Fish (rainbow trout) 96-hour LC50 14.83 ppm

Daphna Magna 48-hour EC50 0.77 ppm

### Section 13 Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations. See label for further instructions.

### Section 14 Transport Information

Not regulated

### Section 15 Regulatory Information

**CERCLA RQ (40 CFR 302)**

Diquat Dibromide

**1000 lbs**

If identified components of this product are **CERCLA** hazardous substances and/or listed under **Sections 302, 304, or 313 of Title III** of the Superfund Amendments and Reauthorization Act (SARA) of 1986 (also known as EPCRA, the Emergency Planning and Community Right-To-Know Act), or under **California Proposition 65** (Safe Drinking Water and Toxic Enforcement Act), they are listed above in Section 15 of this SDS.

If identified components of this product are listed under Section 313, this product contains toxic chemicals subject to the reporting requirements of Section 313. This information must be included in all SDS that are copied and distributed for this material.

**Title III Section 311/312** Hazardous Categories - 40 CFR 370.2:

ACUTE (X) Chronic (X) Fire ( ) Pressure ( ) Reactive ( ) Not Applicable ( )

**T.S.C.A. Status:** All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

**RCRA Status:** 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. If this product becomes hazardous waste it would be assigned RCRA Code(s)

None

**FIFRA information**

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including

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directions for use.

Signal word: WARNING. Hazard statement: May be absorbed through skin. May cause skin damage. May be fatal if swallowed.

### Section 16 Other Information

#### HMIS Ratings :

<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	0
<b>REACTIVITY</b>	0
<b>PERSONAL PROTECTION</b>	B

Disclaimer: This Manufacturer believes that the information contained in the Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of the publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

Preparation/Revision Date: 5/23/15