1. PRODUCT IDENTIFICATION

Product identifier on label: LUMAX® EZ HERBICIDE
Product No.: A19414A
Use: Herbicide
Manufacturer: Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419
Manufacturer Phone: 1-800-334-9481
Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications:
- Skin Corrosion/Irritation: Category 2
- Skin Sensitizer: Category 1B
- Specific Target Organ Toxicity: Repeated Category 2

Signal Word (OSHA): Warning

Hazard Statements:
- Causes skin irritation
- May cause an allergic skin reaction
- May cause damage to organs through prolonged or repeated exposure

Other Hazard Statements: None

Precautionary Statements:
- Do not breathe mist, vapors, spray.
- Wash hands and face thoroughly after handling.
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves, protective clothing, eye protection.
- If on skin: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice.
- Get medical advice if you feel unwell.
- See Section 4 First Aid Measures.
- Take off contaminated clothing and wash it before reuse.
- Dispose of contents and container in accordance with local regulations.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other ingredients</td>
<td>Other ingredients</td>
<td>Trade Secret</td>
<td>&gt;54.99%</td>
</tr>
<tr>
<td>Attapulgite (Ultrafine Particle Size)</td>
<td>Attapulgite (Ultrafine Particle Size)</td>
<td>12174-11-7</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>2-chloro-4-ethylamino-6-isopropylamino-s-triazine</td>
<td>Atrazine</td>
<td>1912-24-9</td>
<td>10.20%</td>
</tr>
<tr>
<td>Acetamide, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)-,(S)</td>
<td>S-Metolachlor</td>
<td>87392-12-9</td>
<td>27.10%</td>
</tr>
<tr>
<td>2-[4-(methylsulfonyl)-2-nitrobenzoyl]-1,3-cyclohexanediene</td>
<td>Mesotrione</td>
<td>104206-82-8</td>
<td>2.71%</td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:

- Skin irritation
- Allergic skin reaction

Indication of immediate medical attention and special treatment needed:

- There is no specific antidote if this product is ingested.
- Treat symptomatically.
- Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

- Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

- Flammable hydrogen gas may be formed on contact with incompatible metals. See "Conditions to Avoid", Section 10.

- During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.
Safety Data Sheet

LUMAX® EZ HERBICIDE

Date: 4/15/2016
Replaces: 4/13/2016

Special protective equipment and precautions for firefighters:
Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:
Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:
Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:
Spray solutions of this product should be mixed, stored and applied using only plastic, plastic-lined steel, stainless steel or fiberglass/plastic containers. Concentrate should not be stored or maintained in long-term contact with galvanized steel, carbon steel, aluminum, brass or cast iron.

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:
Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other ingredients</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Atapulgite (Ultrafine Particle Size)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Atrazine</td>
<td>Not Established</td>
<td>2 mg/m³ TWA (inhalable)</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>S-Metolachlor</td>
<td>Not Established</td>
<td>Not Established</td>
<td>5 mg/m³ TWA</td>
<td>Syngenta</td>
</tr>
<tr>
<td>Mesotrione</td>
<td>Not Established</td>
<td>Not Established</td>
<td>5 mg/m³ TWA</td>
<td>Syngenta</td>
</tr>
</tbody>
</table>

Appropriate engineering controls:
Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:
Ingestion:
Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:
Where eye contact is likely, use chemical splash goggles.

Skin Contact:
Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:
A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH certified respirator with any N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light brown liquid
Odor: Paint
Odor Threshold: Not Available
pH: 4.7 (1% solution in deionized H2O @ 77°F [25°C])
Melting point/freezing point: Not Applicable
Initial boiling point and boiling range: Not Available
Flash Point (Test Method): >213°F
Flammable Limits (% in Air): Not Available
Flammability: Not Available
Vapor Pressure: Atrazine 2.9 x 10(-7) mmHg @ 68°F (20°C)
Mesotrione < 4.3 x 10(-8) mmHg @ 68°F (20°C)
S-Metolachlor 2.8 x 10(-5) mmHg @ 77°F (25°C)
Vapor Density: Not Available
Relative Density: 1.100 g/cm³ @ 68°F : 9.180 lbs/gal @ 68°F
Solubility (ies): Atrazine 33 mg/l @ 68°F (20°C)
Mesotrione 160 mg/l @ 68°F (20°C) (99.7% pure)
S-Metolachlor 0.46 g/l @ 77°F (25°C)
Partition coefficient: n-octanol/water: Not Available
Autoignition Temperature: Not Available
Decomposition Temperature: Not Available
Viscosity: Not Available
Other: None
10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical stability: Stable under normal use and storage conditions.
Possibility of hazardous reactions: Will not occur.
Conditions to Avoid: None known.

Incompatible materials: Concentrate should not be stored in galvanized steel, carbon steel, aluminum or unlined steel containers. Spray solutions should not be mixed, stored or applied in containers other than plastic, plastic-lined steel, stainless steel or fiberglass.

Hazardous Decomposition Products: Flammable hydrogen gas may be formed on contact with incompatible metals. See "Conditions to Avoid", Section 10.

11. TOXICOLOGICAL INFORMATION

Health effects information
Likely routes of exposure: Dermal, Inhalation
Symptoms of exposure: Rash, redness or itching, Skin irritation
Delayed, immediate and chronic effects of exposure: Possible carcinogenicity, Skin irritation, Allergic skin reaction

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion: Oral (LD50 Female Rat)</td>
<td>5000 mg/kg body weight</td>
</tr>
<tr>
<td>Dermal: Dermal (LD50 Rat)</td>
<td>&gt; 5000 mg/kg body weight</td>
</tr>
<tr>
<td>Inhalation: Inhalation (LC50 Rat)</td>
<td>&gt; 2.58 mg/l air - 4 hours</td>
</tr>
<tr>
<td>Eye Contact:</td>
<td>Mildly Irritating (Rabbit)</td>
</tr>
<tr>
<td>Skin Contact:</td>
<td>Moderately Irritating (Rabbit)</td>
</tr>
<tr>
<td>Skin Sensitization:</td>
<td>A skin sensitizer (Guinea Pig)</td>
</tr>
</tbody>
</table>

Reproductive/Developmental Effects
Atrazine: None observed.
Mesotrione: Did not show reproductive effects in animal experiments.
S-Metolachlor: Did not show reproductive effects in animal experiments.

Chronic/Subchronic Toxicity Studies
Atrazine: Cardiotoxicity in long term study with high doses (dogs).
Mesotrione: No adverse effect has been observed in chronic toxicity tests.
S-Metolachlor: No adverse effect has been observed in chronic toxicity tests.

Carcinogenicity
Atrazine: Mammary tumors (female Sprague-Dawley rats), sex and strain specific. None observed (male Sprague-Dawley rats, F-344 rats or mice).
Mesotrione: Did not show carcinogenic effects in animal experiments.
S-Metolachlor: Did not show carcinogenic effects in animal experiments.
LUMAX® EZ HERBICIDE

Chemical Name                                      NTP/IARC/OSHA Carcinogen
Other ingredients                                  No
Attapulgite (Ultrafine Particle Size)              No
2-chloro-4-ethylamino-6-isopropylamino-s-triazine   IARC Group 3
Acetamide, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)\,(S) No
2-[4-(methylsulfonyl)-2-nitrobenzoyl]-1,3-cyclohexanedione No

Other Toxicity Information
None

Toxicity of Other Components
Attapulgite (Ultrafine Particle Size)
Prolonged or repeated inhalation of dust may cause a disabling, progressive pulmonary fibrosis. Inhalation hazard may not exist in the liquid form. May cause eye irritation.

Other ingredients
Not Established

Target Organs
Active Ingredients
Atrazine : Heart
Mesotrione : Blood, eye, kidney, liver.
S-Metolachlor: Liver

Inert Ingredients
Attapulgite (Ultrafine Particle Size): Lung, eye
Other ingredients: Not Established

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity
Atrazine :
Fish (Rainbow Trout) 96-hour LC50 4.5 ppm
Green Algae 5-day EC50 49 ppb
Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 6.9 ppm
Bird (Bobwhite Quail) 12-day LD50 940 mg/kg

S-Metolachlor:
Fish (Rainbow Trout) 96-hour LC50 1.23 mg/l
Green Algae 96-hour ErC50 0.077 mg/l
Invertebrate (Water Flea) 48-hour EC50 11.24 mg/l

Mesotrione :
Fish (Rainbow Trout) 96-hour LC50 >120 mg/l
Fish (Bluegill Sunfish) 96-hour LC50 >120 mg/l
Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 900 mg/l
Green Algae 72-hour EbC50 4.5 mg/l
Environmental Fate

Atrazine:
The information presented here is for the active ingredient, atrazine.

Mesotrione:
The substance has low potential for bioaccumulation. Mesotrione has medium to high mobility in soil.

S-Metolachlor:
The information presented here is for the active ingredient, S-Metolachlor.

13. DISPOSAL CONSIDERATIONS

Disposal:
Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable
Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
Ground Transport - NAFTA
Not regulated

Comments
Water Transport - International
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (S-Metolachlor, Atrazine), Marine Pollutant
Hazard Class: Class 9
Identification Number: UN 3082
Packing Group: PG III

Air Transport
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (S-Metolachlor, Atrazine)
Hazard Class: Class 9
Identification Number: UN 3082
Packing Group: PG III

15. REGULATORY INFORMATION

Pesticide Registration:
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. Following is the hazard information as required on the pesticide label:

Caution: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

EPA Registration Number(s):
LUMAX® EZ HERBICIDE

Date: 4/15/2016
Replaces: 4/13/2016

100-1442

EPCRA SARA Title III Classification:
Section 311/312 Hazard Classes: Acute Health Hazard
Section 313 Toxic Chemicals: Atrazine 10.20% (CAS No. 1912-24-9)

CERCLA/SARA 304 Reportable Quantity (RQ):
Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):
Not Applicable

TSCA Status:
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

<table>
<thead>
<tr>
<th></th>
<th>Health:</th>
<th>Flammability:</th>
<th>Instability:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS Hazard Ratings

<table>
<thead>
<tr>
<th></th>
<th>Health:</th>
<th>Flammability:</th>
<th>Reactivity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</td>
<td>2*</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Syngenta Hazard Category: C,S

For non-emergency questions about this product call:
1-800-334-9481

Original Issued Date: 1/31/2012
Revision Date: 4/15/2016
Replaces: 4/13/2016
Section(s) Revised: 2

The information and recommendations contained herein 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 contained herein.