SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS:  EMERGENCY TELEPHONE NUMBERS:
ALBAUGH, LLC   (800) 424-9300 (CHEMTREC, transportation and spills)
Ankeny, IA  50021

PRODUCT NAME  :  MESOTRIONE 4SC
CHEMICAL NAME  :  Mesotrione
PRODUCT USE  :  Herbicide
PRODUCT CODE  :  EPA Reg. No  42750-315

SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

Brown viscous liquid

HEALTH HAZARDS:  Mildly irritating to the eyes and skin.  May be harmful if swallowed.

PHYSICAL HAZARDS:  May decompose at high temperatures forming noxious gases.  Dust clouds from dried material may have explosivity risk.

ENVIRONMENTAL HAZARDS:  May be harmful to non-target plant species.

SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>PERCENTAGE</th>
<th>CAS NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mesotrione</td>
<td>40.0</td>
<td>104206-82-8</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>15.0</td>
<td>107-21-1</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>45.0</td>
<td>n/a</td>
</tr>
</tbody>
</table>

SECTION 4 - FIRST AID MEASURES

First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

IF SWALLOWED:  Call a poison control center or doctor immediately for 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 by mouth to an unconscious person.

IF IN EYES:  Hold eye open and rinse slowly and gently with water for 15-20 minutes.  Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.  Call a poison control center or doctor for treatment advice.

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.

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 a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN:  No specific antidote available, treat symptomatically

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.
SECTION 5 - FIRE FIGHTING MEASURES

National Fire Protection Rating (NFPA)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABILITY</td>
<td>0</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
</tr>
</tbody>
</table>

4=Severe  3=Serious  2=Moderate  1=Slight  0=Minimal

FLASHPOINT: >200 F

EXTINGUISHING MEDIA: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

FIRE AND EXPLOSION HAZARD: Can burn in fire, releasing possibly toxic gases. Flammable hydrogen gases may be formed on contact with incompatible metals such as mild steel or galvanized steel.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent excessive water runoff.

FIRE FIGHTING EQUIPMENT: Full fire fighting turn-out gear with self-contained breathing apparatus.

Minimize use of water to prevent environmental contamination. Contact your State Pesticide or Environmental Control Agency, or nearest EPA Regional Office for guidance on disposal.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILLS OR LEAKS: Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Minimize use of water to prevent environmental contamination.

SECTION 7 - HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate.

HANDLING: Use only in a well-ventilated area. Spray solutions should only be mixed or stored in plastic, stainless steel or fiberglass vessels. Concentrate must not be stored in long term contact with galvanized steel, carbon (mild) steel, aluminum, brass or cast iron.

STORAGE: KEEP FROM FREEZING. DO NOT store below 32°F. Store in a well ventilated area. Keep closed in original container when not in use. Keep away from food, feed and drinking water.
SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS (8 hour TWA, ppm):

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OSHA PEL</th>
<th>ACIGH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mesotrione</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>Not listed</td>
<td>100 mg/m^3 (aerosol)</td>
</tr>
</tbody>
</table>

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product to minimize exposure to airborne contaminants. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:
EYE PROTECTION - Safety glasses when working with concentrate.
CLOTHING - Long-sleeved shirt and long pants, Shoes plus socks
GLOVES – Chemical resistant gloves made of any waterproof material.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:
Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Beige liquid
Odor: Faint odor
pH: 2.4 - 2.8
Melting Point: Not applicable
Boiling Point: No data
Flash Point: >200 F
Evaporation Rate: No data
Flammability: Not flammable
Flammability Limits: Not applicable
Vapor Pressure: < 4.3 x 10^-9 mmHg (68°C)
Vapor Density: Not applicable
Density: 1.2 g/ml (10.0 lb/gl)*
Solubility: 160 mg/Liter @ 68 F
Partition Coefficient: No data
Auto-Ignition Temperature: No data
Decomposition Temperature: No data
Viscosity: No data

*Listed density is an approximate value and does not necessarily represent that of a specific batch.
SECTION 10 - STABILITY AND REACTIVITY

PRODUCT REACTIVITY: None known.

CHEMICAL STABILITY: Stable, however may decompose if heated.

HAZARDOUS REACTION/POLYMERIZATION: Product will not undergo polymerization.

CONDITIONS TO AVOID: Avoid storage or prolonged contact with galvanized steel, carbon steel, aluminum, brass or cast iron.

INCOMPATIBLE MATERIALS: Strong oxidizers. Do not mix or store in mild steel or aluminum containers. Avoid use with equipment using zinc, brass or copper components.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen and carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity values from a similar but not identical formulation.

ACUTE TOXICITY:
Oral LD$_{50}$ (rat) - $>5,000$ mg/Kg
Dermal LD$_{50}$ (rat) - $>5,000$ mg/Kg
Inhalation LC$_{50}$ (rat) - $>4.0$ mg/L
Eye Irritation (rabbit) - Mild irritant
Skin Irritation (rabbit) - Slight irritant
Sensitization (guinea pig) - Not a sensitizer

CARCINOGEN STATUS:
OSHA - Not listed.
NTP - Not listed.
IARC - Not listed.

TERATOGENICITY: Not known to exhibit reproductive or teratogenic (birth defect) effects.

MUTAGENICITY: No evidence of mutagenic effects during in vivo or in vitro studies.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: 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 washwaters or rinsate. Products containing mesotrione may leach in certain permeable soil types.

FATE: Mesotrione is moderately persistent with medium to high mobility potential in soil depending on soil type.

FISH TOXICITY: (Technical)
96 hour LC$_{50}$, Rainbow trout - $>120$ mg/L
96 hour LC$_{50}$, Bluegill - $>120$ mg/L

AVIAN TOXICITY: (Technical)
Oral LD$_{50}$, Bobwhite quail - No data
Oral LD$_{50}$, Mallard duck - No data

BEE TOXICITY: (Technical)
Contact LD$_{50}$ - No data
Do not contaminate water, food or feed by storage or disposal.

WASTE: Pesticide wastes are toxic. Dispose of in accordance with applicable Federal, state and local laws and regulations.

CONTAINER: Non-refillable containers: Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Refillable container: Refill this container with mesotrione only. Do not reuse this container for any other purposes. Do not reuse this container for any other purpose.

Refer to the container label to determine if it is refillable and for complete cleaning and disposal instructions.

SECTION 14 - TRANSPORT INFORMATION

SHIPPING DESCRIPTION: Not regulated by DOT (Ground transport)

TRANSPORT HAZARD CLASS: N/A
UN NUMBER: N/A
DOT PACKING GROUP: PG III

SECTION 15 - REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY: 3,200 gallons (Ethylene glycol RQ of 5,000 lbs)

SARA TITLE III STATUS: 311/312 Hazard Categories - Immediate health hazard
313 Toxic Chemicals - Ethylene glycol (< 15.0%)

CALIFORNIA PROP 65 STATUS: Not listed

SECTION 16 - OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS HAZARD RATINGS</th>
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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. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

REVISED DATE: August, 2017
REFERENCE: Initial release