1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tri-Power Selective Herbicide
EPA Reg. No.: 228-262
Product Type: Herbicide
Company Name: Nufarm Americas Inc.
11901 S. Austin Avenue
Alsip, IL 60803
1-800-345-3330

Telephone Numbers: For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident,
Call CHEMTREC Day or Night: 1-800-424-9300
For Medical Emergencies Only, Call 1-877-325-1840

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as
the FIFRA label. Certain sections of this SDS are superseded by federal law governed by EPA for a
registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

2. HAZARDS IDENTIFICATION

PHYSICAL HAZARDS:
Not Hazardous

HEALTH HAZARDS:
Acute oral toxicity Category 4
Eye Damage Category 1
Specific target organ toxicity – Repeated exposure Category 2

ENVIRONMENTAL HAZARDS:
Not Hazardous

SIGNAL WORD:
DANGER

HAZARD STATEMENTS:
Causes serious eye damage. Harmful if swallowed. May cause damage to organs (liver, kidneys) through
prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS
Do not breathe vapors or mists. Wash hands thoroughly after handling. Do not eat, drink or smoke when using
this product. Wear eye protection.

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. Immediately call a POISON CENTER or doctor.

Get medical advice if you feel unwell.

Dispose of contents in accordance with local, state, and federal regulations.
3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NO.</th>
<th>% BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylamine Salt of 2-Methyl-4-Chlorophenoxyacetic Acid (MCPA DMA Salt)</td>
<td>2039-46-5</td>
<td>39.2 – 41.6</td>
</tr>
<tr>
<td>Dimethylamine Salt of (+)-(R)-(4-Chloro-2-methylphenoxy)propionic acid (MCPP-p DMA Salt)</td>
<td>66423-09-4</td>
<td>6.5 – 7.3</td>
</tr>
<tr>
<td>Dimethylamine Salt of 3,6-Dichloro-o-Anisic Acid (Dicamba DMA Salt)</td>
<td>2300-66-5</td>
<td>3.2 – 3.5</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td>Trade Secret</td>
<td>Trade Secret</td>
</tr>
</tbody>
</table>

Synonyms: Mixture of MCPA, MCPP-p, and Dicamba

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

4. FIRST AID MEASURES

If in Eyes: Immediately flush with water. Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get immediate medical attention.

If on Skin or Clothing: Take off contaminated clothing. Wash thoroughly with soap and water. If irritation develops, get medical attention.

If Swallowed: 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 symptoms develop, get medical advice.

If Inhaled: Move person to fresh air. If symptoms develop, get medical advice.

Most Important symptoms/effects, acute and delayed: Corrosive to eyes. Exposure to eye may cause substantial injury. Harmful if swallowed. If ingested or absorbed through the skin, may cause diarrhea, headache, nausea, and vomiting.

Indication of Immediate medical attention and special treatment if needed: For eye exposure, seek immediate medical attention. For ingestion there is no specific antidote available. Treat symptomatically.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Recommended for large fires: foam or water spray. Recommended for small fires: dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Firefighters should wear NIOSH approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazards: If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later.

Hazardous Decomposition Materials (Under Fire Conditions): May produce gases such as hydrogen chloride and oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Methods for Containment: Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.


Other Information: Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.
7. HANDLING AND STORAGE

HANDLING:
Do not get in eyes, on skin or on clothing. Users should wash hands, face, and arms with soap and water before eating, smoking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE:
Always use original container to store pesticides in a secured warehouse or storage building. Protect from freezing. Store at temperatures above 32°F. If allowed to freeze, remix before using. This does not alter the product. Containers should be opened in well-ventilated areas. Keep container tightly sealed when not in use. Do not stack cardboard cases more than two pallets high. Do not store near open containers of fertilizer, seed or other pesticides. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:
Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

Personal Protective Equipment:
Eye/Face Protection: To avoid contact with eyes, wear chemical goggles or face shield and goggles. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, and shoes plus socks. When mixing, loading or using any hand-held equipment, wear chemical-resistant gloves. Washing facilities should be readily accessible to the work area.

Respiratory Protection: Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

Exposure Guidelines:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylamine Salt MCPA</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Dimethylamine Salt of MCPP-p</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Dimethylamine Salt of Dicamba</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td><strong>NE = Not Established</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark brown liquid
Odor: Amine-like odor
Odor threshold: No data available
pH: 6.35 (1% w/w solution in DIW)
Melting point/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point: >230°F (>110°C) Setashflash
Evaporation rate: No data available
Flammability (solid, gas): No data available
Upper/lower flammability or explosive limits: No data available
Vapor pressure: No data available
Vapor density: No data available
Relative density: 1.125g/ml @ 25°C; 1.117 g/ml @ 39°C
Solubility(ies): No data available

April 12, 2015
10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical Stability: This material is stable under normal handling and storage conditions.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Excessive heat. Do not store near heat or flame.
Hazardous Decomposition Products: Under fire conditions may produce gases such as hydrogen chloride and oxides of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eye contact, Skin contact
Eye Contact: Severely irritating. May cause irreversible eye damage.
Skin Contact: Slightly toxic and minimally irritating to the skin based on toxicity studies. Overexposure by skin absorption may cause symptoms similar to those for ingestion.
Ingestion: Harmful if swallowed. May cause nausea, vomiting, abdominal pain, decreased blood pressure, muscle weakness, muscle spasms.
Inhalation: Low toxicity if inhaled. Overexposure may cause symptoms similar to those from ingestion.
Delayed, immediate and chronic effects of exposure: Prolonged exposure may cause liver and kidney damage.

Toxicological Data:
Data from laboratory studies on this product are summarized below:
Oral: Rat LD₅₀: 1,400 mg/kg
Dermal: Rabbit LD₅₀: >2,000 mg/kg
Inhalation: Rat 4-hr LC₅₀: > 2.07 mg/l (no mortality at highest dose tested)
Eye Irritation: Rabbit: Severely irritating/corrosive
Skin Irritation: Rabbit: Slightly irritating (PDII=0.25)
Skin Sensitization: Guinea pigs: Not a contact sensitizer

Subchronic (Target Organ) Effects: Repeated overexposure to phenoxy herbicides may cause effects to liver, kidneys, blood chemistry, and gross motor function. Rare cases of peripheral nerve damage have been reported, but extensive animal studies have failed to substantiate these observations, even at high doses for prolonged periods. Repeated overexposure to dicamba may cause liver changes or a decrease in body weight.

Carcinogenicity / Chronic Health Effects: The International Agency for Research on Cancer (IARC) lists exposure to chlorophenoxy herbicides as a class 2B carcinogen, the category for limited evidence for carcinogenicity in humans. However, newer MCPA rat and mouse lifetime feeding studies, as well as a more current MCPP lifetime feeding study in rats, did not show carcinogenic potential. Dicamba did not cause cancer in long-term animal studies. The U.S. EPA has given dicamba a Class D classification (not classifiable as to human carcinogenicity).

Reproductive Toxicity: MCPA studies in laboratory animals have shown testicular effects and lower male fertility. No impairment of reproductive function attributable to MCPP has been noted in laboratory animal studies. Dicamba did not interfere with fertility in reproduction studies in laboratory animals.

Developmental Toxicity: MCPA and MCPP studies in laboratory animals have shown decreased fetal body weights and delayed development in the offspring at doses toxic to mother animals. Animal tests with dicamba have not demonstrated developmental effects.

Genotoxicity: There have been some positive and some negative studies, but the weight of evidence is that neither MCPA nor MCPP is mutagenic. Animal tests with dicamba did not demonstrate mutagenic effects.

Assessment Carcinogenicity:
This product contains substances that are considered to be probable or suspected human carcinogens as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Regulatory Agency Listing As Carcinogen</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorophenoxy Herbicides (MCPA, MCPP-p)</td>
<td></td>
<td>No</td>
<td>2B</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Dicamba</td>
<td></td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td></td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

### 12. ECOLOGICAL INFORMATION

#### Environmental Hazards:
Drift or runoff from treated areas may be hazardous to aquatic organisms and non-target plants.

#### Ecotoxicity:

- **Data on MCPA DMA:**
  - 96-hour LC₅₀ Bluegill: >310 mg/l
  - 96-hour LC₅₀ Rainbow Trout: 230 mg/l
  - 48-hour EC₅₀ Daphnia: 190 mg/l
  - Bobwhite Quail Oral LD₅₀: 390 mg/kg
  - Mallard Duck 8-day Dietary LC₅₀: >5,620 mg/l

- **Data on Mecoprop-p DMA:**
  - 96-hour LC₅₀ Bluegill: >93 mg/l
  - 96-hour LC₅₀ Rainbow Trout: >150 mg/l
  - 48-hour LC₅₀ Daphnia: >91 mg/l
  - Bobwhite Quail Oral LD₅₀: >498 mg/kg
  - Bobwhite Quail 8-day Dietary LC₅₀: >4,633 mg/kg
  - Mallard Duck 8-day Dietary LC₅₀: >4,137 mg/kg

- **Data on Dicamba:**
  - 96-hour LC₅₀ Bluegill: 135 mg/l
  - 96-hour LC₅₀ Rainbow Trout: 135 mg/l
  - 48-hour EC₅₀ Daphnia: 110 mg/l
  - Bobwhite Quail 8-day Dietary LC₅₀: >10,000 mg/l
  - Mallard Duck 8-day Dietary LC₅₀: >10,000 mg/l
  - 48-hour Honey Bee Contact LD₅₀: >100 µg/bee

#### Environmental Fate:
MCPA DMA rapidly dissociates to parent MCPA in the environment. In soil, MCPA is microbially degraded with a typical half-life of approximately 10 to 14 days. Mecoprop-p DMA rapidly dissociates to parent mecoprop-p acid in the environment. In soil, mecoprop-p is relatively immobile in most soils and has a half-life of several days in surface soils. Dicamba has low bioaccumulation potential, is not persistent in soil, is highly mobile in soil and degrades rapidly.

### 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal Method:
Pesticide wastes are toxic. If container is damaged or if pesticide has leaked, contain all spillage. Absorb and clean up all spilled material with granules or sand. Place in a closed, labeled container for proper disposal. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### Container Handling and Disposal:

- **Nonrefillable Containers 5 Gallons or Less:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying.

  **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

- **Nonrefillable containers larger than 5 gallons:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. If recycling or reconditioning not available, puncture and dispose of in a sanitary landfill,
or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable containers larger than 5 gallons:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

### 14. TRANSPORTATION INFORMATION

Follow the precautions indicated in Section 7: HANDLING AND STORAGE of this MSDS.

**DOT**
- Not Regulated

**IMDG**
- Not Regulated

**IATA**
- Not Regulated

### 15. REGULATORY INFORMATION

#### EPA 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 directions for use.

**DANGER.** Corrosive, causes irreversible eye damage. Do not get in eyes or on clothing. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**U.S. FEDERAL REGULATIONS**

**TSCA Inventory:** This product is exempted from TSCA because it is solely for FIFRA regulated use.

**SARA Hazard Notification/Reporting:**
**Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370.66):**
- Acute Health and Chronic Health

**Section 313 Toxic Chemical(s):**
- Dimethylamine Dicamba (CAS No. 2300-66-5), 3.2 – 3.5% by weight in product

**Reportable Quantity (RQ) under U.S. CERCLA:**
- Dimethylamine Dicamba (CAS No. 2300-66-5) None specified.

**RCRA Waste Code:**

April 12, 2015
SAFETY DATA SHEET

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.

State Information:
Other state regulations may apply. Check individual state requirements.

California Proposition 65: Not listed.

16. OTHER INFORMATION

National Fire Protection Association (NFPA) Hazard Rating:
Rating for this product: Health: 3 Flammability: 1 Reactivity: 0
Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTED 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-accepted label.

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Date of Issue: April 12, 2015          Supersedes: October 18, 2013