

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 

Change Up™ Selective Herbicide

EPA Reg. No.: **Product Type:**  228-445 Herbicide

Nufarm Americas Inc.

Company Name:

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 Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide.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 Toxicity Oral Aspiration Hazard

Eye Irritation

Skin Irritation

Category 4

Category 1 Category 2A

Category 2

## **ENVIRONMENTAL HAZARDS:**

Not hazardous

## SIGNAL WORD:

**DANGER** 

#### HAZARD STATEMENTS:

Harmful if swallowed. May be fatal if swallowed and enters airways. Causes serious eye irritation. Causes skin irritation.





## PRECAUTIONARY STATEMENTS

Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves and eye protection.

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice. Take off clothing and wash before reuse.

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 advice.

Dispose of contents in accordance with local, state, and federal regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	% BY WEIGHT
Dimethylamine Salt of 2-Methyl-4-Chlorophenoxyacetic Acid (MCPA DMA Salt)	2039-46-5	49.5 - 52.6
1-Methylheptyl Ester of Fluroxypyr	81406-37-3	5.7 - 6.3
Dicamba Acid (3,6-Dichloro-o-Anisic Acid)	1918-00-9	4.0 - 4.5
Heavy Aromatic Solvent Naphtha	64742-94-5	6.0 - 6.6
Other Ingredients	Trade Secret	Trade Secret

#### Synonyms:

Mixture of MCPA, Fluroxypyr and Dicamba

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

#### 4. FIRST AID MEASURES

If in Eyes: Hold eye open and rinse slowly and gently with water. Remove contact lenses, if present, then continue rinsing eye. Get immediate medical attention.

If Swallowed: DO NOT induce vomiting. Get immediate medical attention.

If Inhaled: Move person to fresh air. If breathing is difficult, administer oxygen. If symptoms develop, get medical advice.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water. If irritation or rash occurs, get medical advice.

**Most important symptoms/effects, acute and delayed:** Causes serious eye irritation. Causes skin irritation. Harmful if swallowed. Aspiration hazard – may be fatal if swallowed and enter airways.

Indication of immediate medical attention and special treatment needed, if necessary: Get immediate medical attention for ingestion.

### 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.

**Methods for Clean-Up and Disposal:** Pump any free liquid into an appropriate closed container. Collect washings for disposal. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

**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

## SAFETY DATA SHEET

# Change Up™ Selective Herbicide

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 25° F. Protect product from freezing. 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 face shield, goggles or safety glasses. 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. An emergency shower or water supply 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:**

	OS	НА	AC	GIH	
Component	TWA	STEL	TWA	STEL	Unit
Dimethylamine Salt MCPA	NE	NE	NE	NĘ	
Fluroxypyr	NE	NE	NE	NE	
Dicamba	NE	NE	NE	NE	
Heavy Aromatic Solvent Naphtha	NE	NE	NE	NE	
Other Ingredients	NE	NE	NE	NE	

NE = Not Established

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Odor:

Odor threshold: :Hq

Melting point/freezing point:

Initial boiling point and boiling range Flash point:

Flammability (solid, gas): Upper/lower flammability or explosive limits:

Vapor pressure: Vapor density: Relative density: Solubility(ies):

Evaporation rate:

Partition coefficient: n-octanol/water: Autoignition temperature: Decomposition temperature:

Amber liquid

Mild amine, ester odor

No data available 95

No data available

No data available

>230° F (>110° C) Setaflash No data available

No data available No data available No data available

No data available 1.151 @ 25° C

No data available No data available

No data available No data available

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Viscosity:

108.4 cPs @ 25° C

**Note:** Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

## 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.

Incompatible Materials: Strong oxidizing agents: bases and acids.

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: Inhalation, eye and skin contact.

Symptoms of Exposure:

Eye Contact: Causes serious eye irritation. Vapors and mists can cause irritation.

Skin Contact: Irritating based on toxicity studies.

**Ingestion:** Harmful if ingested. May cause nausea, vomiting, abdominal pain, weakness of arms and/or legs, dizziness, loss of coordination. The petroleum hydrocarbon component, if aspirated into the respiratory system during ingestion or vomiting may cause mild or severe pulmonary injury, possibly progressing to death.

**Inhalation:** May cause upper respiratory tract irritation, coughing, wheezing, nausea, headache, depression. Overexposure to petroleum hydrocarbon component may cause irritation to respiratory tract, headaches, anesthesia, drowsiness, unconsciousness and other central nervous system effects, possibly including death.

Delayed, immediate and chronic effects of exposure: None reported.

## **Toxicological Data:**

Data from laboratory studies conducted on a similar, but not identical, formulation:

**Oral:** Rat LD<sub>50</sub>: 1,750 mg/kg (female) **Dermal:** Rat LD<sub>50</sub>: >2,000 mg/kg

Inhalation: Rat 4-hr LC<sub>50</sub>: >2.03 mg/L (no mortalities at highest dose tested)

**Eye Irritation:** Rabbit: Severely irritating **Skin Irritation:** Rabbit: Moderately irritating

Skin Sensitization: Not a contact sensitizer in guinea pigs following repeated skin exposure.

**Subchronic (Target Organ) Effects:** Repeated overexposure may cause effects to liver, kidneys, blood chemistry, testes 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.

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 rat and mouse lifetime feeding studies did not show carcinogenic potential for MCPA. Fluroxypyr did not cause cancer in laboratory animals. The U.S. EPA has given dicamba a Class D classification (not classifiable as to human carcinogenicity). The hydrocarbon component may contain naphthalene, which is listed by IARC as a class 2B and the U.S. National Toxicology Program as reasonably anticipated to be a human carcinogen.

**Reproductive Toxicity:** Testicular effects and lower male fertility have been noted in animal studies for MCPA. In animal studies, fluroxypyr has been shown not to interfere with reproduction. Dicamba did not interfere with fertility in reproduction studies in laboratory animals.

**Developmental Toxicity:** MCPA studies in laboratory animals have shown decreased fetal body weights and delayed development in the offspring at doses toxic to mother animals. Fluroxypyr did not cause birth defects in animals; other effects were seen in the fetus only at doses which caused toxic effects in the mother. 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 MCPA is not mutagenic. Animal tests with fluroxypyr and dicamba did not demonstrate mutagenic effects.

Assessment Carcinogenicity:

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

	Regulatory Agency Listing As Carcinogen			
Component	ACGIH	IARC	NTP	OSHA
Chlorophenoxy Herbicides (MCPA)	No	2B	No	No
Fluroxypyr methylheptyl ester	No	No	No	No
Dicamba	No	No	No	No

## 12. ECOLOGICAL INFORMATION

### Data on MCPA Dimethylamine Salt:

96-hour LC50 Bluegill:

>164 mg/l

Bobwhite Quail Oral LD<sub>50</sub>:

478 mg/kg

96-hour LC<sub>50</sub> Rainbow Trout:

119 ma/l

Mallard Duck 8 day Dietary LC<sub>50</sub>: >5,620 ppm

48 hour EC<sub>50</sub> Daphnia:

100 mg/l

# Data on Fluroxypyr 1-Methylheptyl Ester\*:

Acute LC<sub>50</sub> Blue Gill: above water solubility

Bobwhite Quail Acute Oral LD<sub>50</sub>:

>2,000 mg/kg

Acute LC<sub>50</sub> Rainbow Trout: above water solubility

Mallard Duck Acute Oral LC<sub>50</sub>:

>2,000 mg/kg

Acute Immobilization EC 50 Daphnia Magna: >499 μg/L

## Data on Dicamba:

96-hour LC<sub>50</sub> Bluegill:

135 mg/l

Bobwhite Quail 8 day Dietary LC<sub>50</sub>: >10,000 ppm

96-hour LC<sub>50</sub> Rainbow Trout:

135 mg/l

Mallard Duck 8 day Dietary LC<sub>50</sub>: >10,000 ppm

48 hour EC<sub>50</sub> Daphnia:

110 mg/l

## **Environmental Fate:**

MCPA dimethylamine salt rapidly dissociates to parent MCPA acid in the environment. In soil, MCPA is microbially degraded with a typical half-life of approximately 10 to 14 days. Fluroxypyr has a hydrolýsis half-life of 12.8 to 16.5 hours. Under aerobic and anaerobic soil conditions the half-life for Fluroxypyr is 7 days. 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. 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. 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

<sup>\*</sup>Fluroxypyr 1-Methylheptyl Ester is highly insoluble in water.

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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 Container 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 and, if possible, spray all sides while adding water. If practical, 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 SDS.

#### DOT

< 2,500 gallons per complete package

Non Regulated

≥ 2,500 gallons per complete package

UN 3082, Environmentally hazardous substance, liquid, n.o.s., (Dicamba), 9, III, RQ

IMDG:

Non Regulated

IATA:

Non 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.

WARNING. Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing.

## 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):

Immediate and Delayed

Section 313 Toxic Chemical(s):

Dicamba (CAS No. 1918-00-9), 4.0 – 4.5% by weight in product

Reportable Quantity (RQ) under U.S. CERCLA:

Dicamba (CAS No. 1918-00-9) 1,000 pounds

#### RCRA Waste Code:

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: 2 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.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Nufarm Americas Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Nufarm Americas Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS AND ALL SUCH WARRANTIES ARE HEREBY SPECIFICALLY DISCLAIMED.

Date of Issue:

January 25, 2023

Supersedes:

April 11, 2015

Change-Up is a trademark of Nufarm Americas Inc.



## Lebanon Seaboard Corporation

# SAFETY DATA SHEET

Revison Date: 6/2/2025 8:41:52 AM

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name: ProScape 17-0-5 30% PCU MOP .167 Dimension + .067 Acelepryn

EPA No: 000961-00427-000000

Product Identity: Pre emergent insecticide, granular

Supplier/Manufacturer

Lebanon Seaboard Corporation 1600 East Cumberland Street Lebanon PA 17042

Tel: 1-800-233-0628 USA

(717-273-1685) INTL

Supplier Email: customerservice@lebsea.com

Emergency telephone numbers:

Chemtrec (Spill) 1-800-424-9300 Prosar (Health) 888-208-1368

#### 2. HAZARDS IDENTIFICATION

OSHA Signal Word: Warning

Classification:

H315: Causes skin irritation. (Category 2), Skin corrosion/irritation

H333: May be harmful if inhaled. (Category 5), Acute toxicity, inhalation

H335: May cause respiratory irritation. (Category 3), Specific target organ toxicity, single

exposure; Respiratory tract irritation

H319: Causes serious eye irritation. (Category 2A), Serious Eye Irritation

H320: Causes eye irritation. (Category 2B), Eye Irritation

## Hazard Statements:

H315: Causes skin irritation. (Category 2)

H316: Causes mild skin irritation. (Category 3)

H319: Causes serious eye irritation. (Category 2A)

H320: Causes eye irritation. (Category 2B)

H333: May be harmful if inhaled. (Category 5)

H335: May cause respiratory irritation. (Category 3)

## Pictogram:



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Precautionary Statements for handling:

P264: Wash hands and exposed skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305: If in eyes, rinse with water and seek medical attention if symptoms persist.

P362: Take off contaminated clothing and wash before reuse.

P352: IF ON SKIN: Wash with plenty of soap and water.

P312: IF INHALED: Call » POISON CENTER or doctor/physician if you feel unwell.

P351: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P313: If skin irritation occurs: Get medical advice/ attention.

P332: If skin irritation occurs: Get medical advice/ attention.

P337: If eye irritation persists: Get medical advice/attention.

P405: Store locked up.

P403: Store in a well-ventilated place.

P233: Keep container tightly closed.

P501: Dispose of contents/container properly as required by law for waste pesticides.

Keep out of reach of children

Precautionary Statements for disposal - Dispose in accordance with all federal, state and local regulations.

## Hazards not otherwise classified (HNOC): None

Unknown acute toxicity: <1% of the mixture consists of ingredients of unknown toxicity

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Dolomite	16389-88-1	45 - 50
Urea	57-13-6	25 - 30
Urea (Polyplus)	57-13-6	10 - 15
Potassium Chloride	7447-40-7	5 - 10
Cellulose Paper Fiber	9004-34-6	5 - 10
Dipropylene Glycol	25265-71-8	0.5 - 1
Dithiopyr	97886-45-8	0.1 - 0.5
Chlorantraniliprole	500008-45-7	0.01 - 0.1

## 4. FIRST AID MEASURES

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact Wash with soap and water. If injury occurs, or if discomfort or irritation persists contact a physician.

Inhalation If inhaled and discomfort occurs, move to fresh air, and keep person at rest in a position comfortable for

breathing. If difficulty in breathing occurs and/or persists, administer oxygen and get medical attention.

If medical advice is needed, have product container or label on hand.

Ingestion Rinse mouth. Drink Plenty of water. If you feel unwell, call a poison control center or seek medical

attention. Do not induce vomiting of an unconscious person.

<u>Self-protection of the first aider:</u> Use any appropriate personal protective equipment as required for nuisance dusts.

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Most important symptoms and effects, both acute and delayed: Nuisance dust irritation may occur with nasal discomfort under highly dusty conditions.

Eye irritation on contact with redness, tearing and burning sensation.

Redness, itching, or burning sensation on skin with prolonged contact.

Indication of any immediate medical attention and special treatment needed: Treat Symptoms. Consult physician if discomfort or irritation persists.

#### 5. FIRE FIGHTING MEASURES

## Suitable extinguishing media

Use extinguishing media suitable to local circumstances and the surrounding environment. Options in this case include water, CO2, ABC Dry Chemical extinguisher, or foam. Avoid stirring up dust extinguisher stream.

## Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire, do not breathe fumes.

## **Explosion data**

Sensitivity to mechanical impact: None Sensitivity to static discharge: None

Note: Excessive amounts of any burnable dusts can produce explosive mixtures if allowed to disperse in the air in confined areas where ignition sources occur. Prevent excessive dust dispersal in areas of use, storage, or production.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and standard protective (bunker) gear.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment, and emergency procedures

Personal Precautions Use dust mask and gloves as needed or other reasonable personal protective equipment as

required to prevent contact with eyes or skin. Remove ignition sources prior to clean-up.

If in eyes, rinse cautiously with water for several minutes. If eye irritation persists: Seek medical advice.

If in eyes, rinse cautiously with water for several minutes. If eye irritation persists: Seek medical advice.

If experiencing significant respiratory symptoms: seek medical attention.

If experiencing significant respiratory symptoms: seek medical attention.

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into

surface water or sanitary sewer system. See Section 12 for additional ecological

information.

Methods for containment Prevent further leakage or spillage, if safe to do so.

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Methods for clean-up

Use dust mask and/or reasonable personal protective equipment as required to avoid breathing dusts. Moisten or cover powder spill with plastic sheet or tarp to minimize spreading. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Soak up excess with inert absorbent material. Clean contaminated surface thoroughly.

#### 7. HANDLING AND STORAGE

Safe Handling

Ensure adequate ventilation, especially in confined areas. Use personal protective

equipment as required to avoid breathing dusts or mists, and to prevent eye contact. Wash

hands thoroughly after handling.

Storage Conditions

Keep containers tightly closed in a cool, well- ventilated place. Keep out of the reach of

children.

Incompatible materials

Avoid strong acids or alkali, or other reactive substances.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidlines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH*
Nuisance Dusts (for granulars)	10 mg/m3 (TWA- Total)	15 mg/m3 (TWA total) 50	Not Established
		mppcf (TWA total) 5 mppcf	
	9	(TWA respirable)	7

<sup>\*</sup>IDLH refers to amounts that are "Immediately Dangerous to Life or Health"

Engineering controls: Use with adequate ventilation and follow safe work practices to prevent dust buildup in air.

<u>Individual protection measures</u>Use personal protective equipment as required to avoid breathing dust/mist, and to prevent eye contact.

Eye protection

Provide face and eye protection: face shield and goggles recommended if face or eye contact is

likely.

Skin and Body Protection

Gloves and standard work coveralls recommended

Respiratory Protection

Dust mask recommended for dusty or misty conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene

When using product, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash

contaminated clothing before reuse.

Also see Precuationary Statements in Section 2

## 9. PHYSICAL AND CHEMCIAL PROPERTIES

Physical state Appearance Granular Solid Granular Solid Mixed, various

Color

Slight

Odor Odor Threshold

No information available

pН

Not applicable

Melting point/freezing point

Not applicable

Boiling point / boiling range

Not applicable

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Flash point

No information available

Evaporation rate

Not applicable

Flammability (solid, gas)

No information available

Flammability Limits in Air

Upper flammability limit: No information available

Lower flammability limit:

No information available

Vapor pressure Vapor density Water solubility Not applicable Not applicable Mostly Soluable

Solubility in other solvents
Partition coefficient
Autoignition temperature

No information available No information available No information available

Autoignition temperature Decomposition temperature Oxidizing properties

No information available Not particularly reactive

## 10. STABILITY AND REACTIVITY

## Reactivity

Not Reactive

## **Chemical stability**

Stable

## **Possibility of Hazardous Reactions**

May release heat and fumes when mixed in solution with incompatible reactive materials.

## **Hazardous polymerization**

Will not occur.

## Conditions to avoid

High heat, sparks and open flames, as some ingredients may be burnable.

## **Incompatible materials**

Strong acids or alkali, or other reactive substances.

## **Hazardous Decomposition Products**

May emit toxic fumes under fire conditions, such as Nitrogen oxides (NOx), Ammonia, Oxides of sulfur, Hydrogen chloride and Carbon monoxide.

#### 11. TOXICOLOGICAL INFORMATION

Routes of exposure: Ingestion, eyes (contact), skin (contact), dust inhalation

Symptoms

May irritate the digestive tract if ingested in quantity, causing nausea, vomiting and

diarrhea.

Eye irritation on contact with redness, tearing and burning sensation. Redness, itching, or burning sensation on skin with prolonged contact.

Sensitization

No information available.

Germ cell mutagenicity

None known unless noted below in Other

Carcinogenicity

None

Reproductive toxicity

No information available.

STOT - single exposure

No information available

STOT - repeated exposure

No information available

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Chronic toxicity

Yes

Target Organ Effects

Lungs-Nuisance dusts

Aspiration hazard

Other

DOT:

MEX:

Hazard Class:

Proper Shipping Name:

No information available

#### 12. ECOLOGICAL INFORMATION

Toxicity Acute toxicity to fish: Material is highly toxic to acquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in most sensitive species tested) LC50. Oncorhynchus mydiss (rainbow trout), 96 hour, 0.48 mg/l Acute toxicity to aquatic invertebrates LC50, saltwater mysid Mysidopsis bahia, 0.586 mg/l EC50, eastern oyster (Cassostrea virginica), 0.168 mg/l

## 13. DISPOSAL CONSIDERATIONS

## Disposal of wastes:

Excess product should be used up according to label directions, to avoid disposal issues. Dispose of in accordance with Local, State, and Federal regulations.

### Contaminated packaging

Do not recycle or reuse any pesticide container. Follow local regulations.

#### 14. TRANSPORT INFORMATION

NMFC 68140-05 FERT COMPOUNDS (MFGD FERT) NOI, DRY W/HERBI OR INSECTI ADMIXED <=5% GROSS WT

Not Regulated Proper Shipping Name: Not Regulated Hazard Class: Not Applicable IATA: Not Regulated Not Regulated Proper Shipping Name: Not Applicable Hazard Class: IMDG/IMO: Not Regulated Proper Shipping Name: Not Regulated Hazard Class: Not Applicable IMDG: Not Regulated Proper Shipping Name: Not Regulated Not Applicable Hazard Class: Not Regulated ADR: Proper Shipping Name: Not Regulated Not Applicable Hazard Class: Not Regulated ADN: Not Regulated Proper Shipping Name: Not Applicable Hazard Class: Not Regulated RID: Proper Shipping Name: Not Regulated Not Applicable Hazard Class: Not Regulated TDG: Not Regulated Proper Shipping Name: Not Applicable Hazard Class: ICAO: Not Regulated Not Regulated Proper Shipping Name: Hazard Class: Not Applicable

Not Regulated

Not Regulated

Not Applicable

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#### 15. REGULATORY INFORMATION

TSCA (USA): Complies.

**General Product Information:** This product is not federally regulated as a hazardous

material.

Clean Air Act:

No information is available.

Clean Water Act:

This product does not contain any substances regulated as

pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**SARA 313 Superfund Amendments:** This product contains no chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal regulations, Part 372.

## SARA 311/312 Hazard Categories:

Acute: Yes
Chronic: Yes
Fire: No
Sudden release of pressure: No
Reactive: No

**CERCLA:** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) and Superfund.

Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **State Regulations:**

**California Proposition 65:**This product does not contain detectable quantities of chemicals known to the State of California to cause cancer or birth defects, or other reproductive harm.

**Component Analysis - State:** NJ, PA Right to Know: Oxidipropanol: PA

# 16. OTHER INFORMATION

The information provided in this material safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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