



MATERIAL SAFETY DATA SHEET #4007

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I. PRODUCT IDENTIFICATION

Product: LESCO Three Way Selective Herbicide
Chemical Name/Synonyms: 2,4-D, MCPP, Dicamba
Chemical Family: Mixture of chlorophenoxy and benzoic acid herbicides

II. PRODUCT INFORMATION: INGREDIENTS

Chemical Name	TLV/TWA	%(by wt.)	CAS#
Dimethylamine salt of 2,4-dichlorophenoxy acetic acid	10 mg/m ³	30.56	2008-39-1
Dimethylamine salt of 2-(2-methyl-4-chlorophenoxy) propionic acid	ND	16.34	32351-70-5
Dimethylamine salt of (3,6-dichloro-O-anisic acid)	ND	2.77	1918-00-9
Other Ingredients including water	ND	50.33	MIXTURE

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: 216°F	Specific Gravity (water=1): 1.12-1.18
Melting Point: NA	Bulk Density (lbs./cu. ft.): NA
Vapor Pressure (mm Hg): 16.5 @ 20°C	Evaporation Rate: NA
Vapor Density (air = 1): Water Vapor	Percent Volatile: 48 as water
Solubility in Water: Soluble	Appearance and Odor: Brown liquid, pungent amine odor
pH: 8.0 - 9.0	

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (method Used): NA	Auto Ignition Temperature: NA	
Lower Explosion Limits: NA	Upper Explosion Limits: NA	
NFPA/HMIS RATING: HEALTH 2	FIRE 1	REACTIVITY 0
Extinguishing Media: [X] Foam	[] Alcohol Foam	[] Dry Chemical
[X] Water Spray	[] Other	[] CO ₂

Special Fire-Fighting Procedures: Wear NIOSH approved positive pressure, self-contained breathing apparatus. Foam system is preferred because uncontrolled water can spread possible contamination. Prevent run-off from entering drains, sewers or bodies of water.

Unusual Fire and Explosion Hazards: Toxic irritating gases may be formed. Combustion products may include hydrogen chloride, nitrogen oxides, carbon dioxide and carbon monoxide. Product not flammable or combustible.

V. HEALTH HAZARDS

Primary Route(s) of Entry: Skin, eyes, inhalation, ingestion.

Signs & Symptoms of Exposure

Acute: Harmful if swallowed. May cause nausea, vomiting, abdominal pains, myotonia, muscle weakness and fall in blood pressure. Harmful if inhaled. May be irritating to the respiratory tract. May cause skin irritation, seen as redness and swelling.

Causes irreversible eye damage, seen as corneal opacity. Vapors or spray mists are irritating to the eyes. No significant adverse effects are anticipated from skin absorption.

Chronic: Repeated overexposure to 2,4-D herbicides may cause liver, kidney, gastrointestinal and muscular effects. 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.

Emergency First-Aid Procedures

Eyes: Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative.

Prompt medical consultation is essential, **preferably an Ophthalmologist.**

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing before reuse. Remove and discard contaminated leather items, such as shoes, belts and watchbands.

Inhalation: Remove to fresh air if effects occur. Consult a physician.

Ingestion: If swallowed, drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Call a physician. Never give anything by mouth to an unconscious person.

Notes to Physician: Excessive exposure may cause liver, kidney, gastrointestinal and muscular effects. Supportive care is indicated. All treatments should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred. This product contains salts of two phenoxy and one benzoic acid herbicides. Mycotoxic effects may include muscle fibrillations, myotonia and muscular weakness. Ingestion of massive doses may result in persistent fall of blood pressure. Myoglobin and hemoglobin may be found in urine. Elevations in lactate dehydrogenase (LDH), SGOT, SGPT and aldolase indicate the extent of muscle damage. It has been suggested that overexposure in humans may

affect both the central and peripheral nervous systems. The acute effects on the central nervous system resemble those produced by alcohol or sedative drugs. In isolated cases, peripheral neuropathy and reduced nerve conduct velocities have been reported although these observations may be related to other factors. Gas-liquid chromatography for detecting and measuring chlorophenoxy compounds in blood and urine may be useful in confirming and assessing the magnitude of chlorophenoxy absorption.

Toxicity Information:**Oral LD₅₀:** Acute: 1780 mg/kg (Rat)**Dermal LD₅₀:** Acute:>2000 mg/kg (Rabbit)**Inhalation LC₅₀:** >4 mg/l -4 hour (Rat) **Eye Irritation:** Severe**Skin Irritation:** Minimal to Moderate**Positive Teratogen or Mutagen Carcinogen(NTP): No Potential Carcinogen (OSHA): No**

IARC has listed phenoxy acetic acid herbicides in category 2B, limited evidence of carcinogenicity. Various animal cancer tests have shown no reliably positive associations between 2,4-D exposure and cancer. Epidemiology studies on herbicide use have been both positive and negative with the majority being negative.

VI. REACTIVITY**Stability:** Stable Unstable**Conditions to Avoid:** Avoid elevated temperatures.**Incompatibility:** Do not mix with acids and oxidizing materials.**Hazardous Decomposition Products:** Hydrogen chloride, nitrogen oxides under fire conditions.**Hazardous Polymerization:** Will not occur Will occur**VII. SPILL, LEAK, AND DISPOSAL PROCEDURES**

If material is spilled: Absorb in inert material such as sand or sawdust. Dike in case of large spills. Keep out of irrigation ditches and water supplies. Prevent contact with trees and shrubs. To prevent damage to ornamental plants, treat immediately with activated charcoal at the rate no less than 2 lbs/150 sq. ft. for each pound of active ingredient spilled. Contaminated soil may need to be removed. Consult with state and federal regulatory officials. The reportable quantity, RQ, for a spill of this material to the National Response Center is 100 pounds of active ingredient for 2,4-D, equivalent to more than 40 gallons of this product.

Waste Disposal Method: Dispose according to Federal EPA procedures as outlined in the Resource Conservation Recovery act (RCRA) and follow state and local guidelines. Triple rinse and puncture containers as required. Put rinsate into spray tank for application. Do not reuse pesticide containers for any other purpose.

VIII. SPECIAL PROTECTION INFORMATION**Protective Equipment Suggested for Outdoor Application:** Impervious Gloves Dust Mask Respirator(use NIOSH/MSHA approved) Impervious Boots Clean Clothing Eye Goggles / Safety Glasses**Protective Equipment Suggested for Confined Areas:** Sufficient Ventilation Respirator(use NIOSH/MSHA approved) Splash Goggles/Safety Glasses Eyewash Station Emergency Shower Impervious Apron Dust Mask**IX. STORAGE AND HANDLING**

Precautions: Store in a cool, dry place if possible. Separate from other pesticides, fertilizers, seed, feed, foodstuffs, and away from drains, sewers, and water sources.

Other Precautions: Keep out of reach of children. Practice good care and good safety precautions when handling this product. Avoid contact with eye, skin and clothing. Store in temperature below 100°F(38°C). Do not swallow. Wash thoroughly after handling.

X. FEDERAL REGULATORY INFORMATION**SARA TITLE III; SEC. 311/312 HAZARD CATEGORIES**Y Immediate (Acute) Health

SEC 302: NA

Y Delayed (Chronic) Health

SEC 304: NA

N Fire

SEC 313: NA

N Sudden Release of Pressure

CERCLA RQ: 100 lbs (2-4 D)

N Reactivity

CAA RQ: 1 lb 2-4 D

EPA Reg. No.: 10404-43

HM 181 Shipping Name: Environmentally Hazardous substance, liquid, N.O.S. (2,4-D salt), 9, UN3082, PG III RQ= 100 lbs. label \$ 41 gals.

NA = Not Applicable

ND = Not Determined

Preparation and distribution of this Material Safety Data Sheet done by LESCO, Inc., 20005 Lake Road, Rocky River, Ohio 44116-1545, pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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