



MATERIAL SAFETY DATA SHEET #4001

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DATE ISSUED: 1/14/05

SUPERSEDES: NEW

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Momentum™ fx Herbicide

Chemical Family: Mixture

Chemical Name/Synonyms: None

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Triisopropanalamine Salt of 2,4-Dichlorophenoxyacetic Acid	44.2	32341-80-3	NE
Fluroxypyr: 1-methylheptyl (4-amino-3,5-dichloro-6-fluoro-2-pyridyloxy) acetate	8.52	81406-37-3	NE
Triethylamine Salt of 3,5,6-Trichloro-2-Pyridinyloxyacetic Acid	3.31	57213-69-1	NE
Other Ingredients Including:	43.97		
Aromatic Solvent		64742-94-5	
(Contains Naphthalene)		91-20-3	ACGIH – 10 ppm OSHA – 10 ppm

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eyes, Skin, Inhalation, Ingestion

POTENTIAL HEALTH EFFECTS: DANGER. Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or clothing. 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. 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, more current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic potential. The U. S. EPA has given 2,4-D a Class D classification (not classifiable as to human carcinogenicity). The available data on fluroxypyr indicates that it did not cause birth defects; however, in laboratory animals other toxic effects to the fetus have been seen. Triclopyr did not cause cancer in laboratory animal studies and birth defects are unlikely. For triclopyr, in laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

EYE: Causes irreversible eye damage

SKIN: No more than slightly toxic and no more than slightly irritating based on toxicity studies

INHALATION: No more than lightly toxic if inhaled based on toxicity studies

INGESTION: No more than slightly toxic based on toxicity studies

MEDICAL CONDITIONS AGGRAVATED: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

POTENTIAL ENVIRONMENTAL HAZARDS: This product is toxic to fish. Drift or runoff from treated areas may be hazardous to aquatic organisms and nontarget plants. 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 apply when weather conditions favor drift from target area. Clean and rinse spray equipment using soap or detergent and water, and rinse thoroughly before reuse for other spraying. When cleaning equipment, do not pour washwater on the ground; spray or drain over a large area away from wells and other water sources. Do not contaminate water when disposing of equipment washwaters. Do not apply this product through any type of irrigation system. Do not contaminate water used for irrigation or domestic purposes.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling these herbicides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

IV. FIRST AID MEASURES

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

SKIN: 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.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

INGESTION: 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.

NOTES TO MEDICAL DOCTOR: None known

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): >230F (setaflash)

Lower Explosion Limits: ND

NFPA/HMIS Rating: Health: 3

EXTINGUISHING MEDIA: ☒ Foam
☒ Dry Chemical

Auto Ignition Temperature: ND

Upper Explosion Limits: ND

Fire: 1 **Reactivity:** 0

☐ Alcohol Foam ☒ CO₂
☐ Water Spray ☐ Other

EXPLOSION HAZARDS: If water is used to fight fire or cool containers, dike to prevent runoff contamination of municipal sewers and waterways.

FIRE FIGHTING PROCEDURES: Firefighters and others exposed to products of combustion should wear positive-pressure, self-contained breathing apparatus and full protective equipment. Equipment should be thoroughly decontaminated after use.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions, may produce gases such as hydrogen chloride, nitrogen oxides, and carbon monoxide.

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES:

Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush residual spill area with water.

Large spills that soak into the ground should be dug up, placed in metal drums and disposed of in accordance with instructions provided under DISPOSAL of this MSDS. Contact appropriate state agency when considering a land spreading disposal option.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under DISPOSAL section of this MSDS. Any recovered spilled liquid should be collected and disposed of similarly.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES:

Handling: Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash hands, face and arms with soap and water 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 Personal Protection 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 store pesticides in a secured warehouse or storage building. Do not store near open containers of herbicides and other pesticides, fertilizer and seed. Store at temperatures above 28F or agitate before using. Containers should be opened in well-ventilated areas. Keep container tightly sealed while 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 and disposal.

OTHER PRECAUTIONS: Keep out of reach of children.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good local ventilation is recommended; mechanical ventilation may be used if exposure limits may be exceeded. If this container is five gallons or more in capacity, do not open pour product from this container. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.

PERSONAL PROTECTION EQUIPMENT:

Non-WPS Turf Uses: Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170 – in general only agricultural plant uses are covered by the WPS) must wear face shield, goggles, or safety glasses and long pants, long-sleeved shirt, socks and shoes and chemical-resistant gloves when mixing, loading or applying this product. It is recommended that safety glasses include front, brow, and temple protection. In addition to the clothing and eye protection listed above, commercial mixer/loaders must wear chemical resistant in place of rubber gloves except when the product is to be applied to a golf course. After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water.

Non-WPS Industrial Uses: When mixing, loading or applying this product or repairing or cleaning equipment used with this product, wear face shield, goggles, or safety glasses and chemical-resistant gloves, long-sleeved shirt, long pants, socks and shoes. It is recommended that safety glasses include front, brow, and temple protection. For aerial applicators in an enclosed cockpit and applicators applying this product from a tractor that has a completely enclosed cab, eye protection is not required. Wash hands, face and arms with soap and water as soon as possible after mixing, loading or applying this product. After work, remove all clothing and shower using soap and water. Do not reuse clothing worn during the previous day's mixing and loading or application of this product without cleaning first. Clothing must be kept and washed separately from other household laundry. Remove saturated clothing as soon as possible and shower.

WPS Uses: Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170 – in general, only agricultural plant uses are covered) must wear long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, shoes plus socks, and protective eyewear, when cleaning equipment, mixing or loading. 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/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned. If this container is over one gallon and less than five gallons, mixers and loaders who do not use a mechanical system (such as a probe and pump or spigot) to transfer contents of this container must wear coveralls or a chemical-resistant apron in addition to the other required PPE.

RESPIRATORY: Not normally required. If exposure limits may exceed acceptable levels, use a NIOSH approved respirator.

WORK HYGIENIC PRACTICES: Wash hands, face and arms with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NE	SPECIFIC GRAVITY: 1.150G/CC @ 25C
MELTING POINT: NE	EVAPORATION RATE: NE
VAPOR DENSITY (air = 1): NE	VAPOR PRESSURE: NE
ODOR: Mild, ester-like odor	SOLUBILITY IN WATER: Dispersible
APPEARANCE: Amber colored solution	PERCENT VOLATILE: No Data
pH: 5.68 (1% solution)	DENSITY (lbs./gal): 9.83

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known
STABILITY: Stable
POLYMERIZATION: Will not occur
INCOMPATIBLE MATERIALS: None known
HAZARDOUS DECOMPOSITION PRODUCTS: Under fire conditions, may produce gases such as hydrogen chloride, nitrogen oxides, and carbon monoxide

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: (Rabbits, 3): Severe irritant. Corneal opacity and/or conjunctivitis persisted in two animal s through study day termination (Day 21); FIFRA Category I

SKIN EFFECTS: (Rabbits, 3): Slight irritant; FIFRA Category IV

DERMAL LD₅₀: (Rat): >5,000 mg/kg; FIFRA Category IV

ORAL LD₅₀: (Rat, female): 1750 mg/kg; FIFRA Category III

INHALATION LC₅₀: (Rat, 4-hr): >2.06 mg/L; FIFRA Category IV

SENSITIZATION: (Guinea Pig): Not a contact sensitizer following repeated skin exposure

ACUTE EFFECTS FROM OVEREXPOSURE: Causes irreversible eye damage. Harmful if swallowed.

CHRONIC EFFECTS FROM OVEREXPOSURE: 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.

CARCINOGENICITY: 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, more current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic potential. The U. S. EPA has given 2,4-D a Class D classification (not classifiable as to human carcinogenicity). The available data on fluroxypyr indicates that it did not cause birth defects; however, in laboratory animals other toxic effects to the fetus have been seen. Triclopyr did not cause cancer in laboratory animal studies and birth defects are unlikely. For triclopyr, in laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

IARC: Class 2B – Chlorophenoxy
Herbicides, Naphthalene

NTP: Not listed

OSHA: Not listed

OTHER: California Proposition 65 – this product contains chemicals known to the State of California to cause cancer: Naphthalene (91-20-3)

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product is toxic to fish. Drift or runoff from treated areas may be hazardous to aquatic organisms and nontarget plants. 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 apply when weather conditions favor drift from target area. Clean and rinse spray equipment using soap or detergent and water, and rinse thoroughly before reuse for other spraying. When cleaning equipment, do not pour washwater on the ground; spray or drain over a large area away from wells and other water sources. Do not contaminate water when disposing of equipment washwaters. Do not apply this product through any type of irrigation system. Do not contaminate water used for irrigation or domestic purposes.

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ECOTOXICOLOGICAL INFORMATION: No data

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

Product: Pesticide wastes are acutely hazardous. 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 and may contaminate groundwater. 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: Triple rinse (or equivalent). 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.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation:

Less than 30 gals = Not Regulated

Proper Shipping Name:

Less than 30 gal:

COMPOUND, WEED KILLING, LIQUID,
NOT DOT REGULATED

More than 30 gal drum:

RQ ENVIRONMENTALLY HAZARDOUS SUBSTANCES,

Liquid, N.O.S. (2,4-D SALT), 9, UN3082, III

Emergency Response Guidebook Number: 171

Hazard Class: 9

U.S. Surface Freight Class: 20

HM 181 Shipping Name:

NA

ID NO.: 3082

Reportable Quantity (RQ): More than
30 gal drum = Acetic Acid (94-75-7 100
lbs

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

SEC 311/312:

Y Immediate (Acute Health)

Y Delayed (Chronic Health)

N Fire

N Sudden Release of Pressure

N Reactivity

SEC 302 (Extremely Hazardous Substance): NA

SEC 304 (Emergency Release Notification): NA

RCRA Waste Code:

Acetic Acid, (2,4-Dichlorophenoxy)- (CAS #94-75-7) U240

Naphthalene (CAS #91-20-3) U165

SEC 313 (Toxic Chemicals):

Acetic Acid, (2,4-Dichlorophenoxy)- (CAS #94-75-7), 23.70% equivalent by weight in product

Triclopyr Triethylammonium Salt (CAS #57213-69-1), 3.31% by weight in product

Naphthalene (CAS #91-20-3), 0.20% by weight in product

CERCLA RQ:

Acetic Acid, (2,4-Dichlorophenoxy)- (CAS #94-75-7) 100 lbs

Naphthalene (CAS #91-20-3) 100 lbs

CAA RQ: Not listed

EPA Registration No.: 228-418-10404

NOTE: NA=Not Applicable; ND=Not Determined; NE=Not Established

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