MATERIAL SAFETY DATA SHEET #4038

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I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Prosecutor® Pro Non-Selective Herbicide
Chemical Family: Herbicide
Chemical Name/Synonyms: Not Applicable

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Isopropylamine salt of glyphosate	41	38641-94-0	Not Established
Other ingredients	59	Not Applicable	Not Applicable

(Trade secret composition)

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eyes, Skin, Inhalation
POTENTIAL HEALTH EFFECTS: Caution. Causes eye irritation
EYE: May cause temporary irritation
SKIN: Not expected to produce significant adverse effects when recommended use instructions are followed.
INHALATION: Not expected to produce significant adverse effects when recommended use instructions are followed.
MEDICAL CONDITIONS AGGRAVATED: Not Applicable
POTENTIAL ENVIRONMENTAL HAZARDS: Do not apply directly to water, 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.

IV. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently for 15 – 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Seek medical attention if irritation persists.
SKIN: Remove contaminated clothing. Wash affected skin with plenty of water. Get medical attention if irritation persists or symptoms develop. Launder contaminated clothing before reuse.
INHALATION: Remove to fresh air. If respiratory symptoms persist, get medical attention.
INGESTION: Immediately offer water to drink. DO NOT induce vomiting unless directed by medical personnel. If symptoms occur, get medical attention.
NOTES TO MEDICAL DOCTOR: This product is not an inhibitor of cholinesterase. Treatment with atropine and oximes is not indicated.

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): Not Applicable
Lower Explosion Limits: Not Applicable
NFPA/HMIS Rating: Health: 2 Fire: 1 Reactivity: 1
Auto Ignition Temperature: Not Applicable
Upper Explosion Limits: Not Applicable

EXTINGUISHING MEDIA:
- [x] Foam
- [x] Water
- [ ] Alcohol Foam
- [ ] Other
- [x] Dry Chemical
- [x] CO_2

EXPLOSION HAZARDS: Reacts with galvanized steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.
FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use. Minimize use of water to prevent environmental contamination.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide (CO), phosphorus oxides (PxOy), nitrogen oxides (NOx)

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Small spills: flush spill area with water **Large Spills**: absorb in earth, sand or absorbent material. Dig up heavily contaminated soil. Collect in containers for disposal. Flush residues with small quantities of water. Minimize use of water to prevent environmental contamination. Keep out of drains, sewers, ditches and waterways. Minimize spread and notify authorities.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES: Good industrial practice in housekeeping and personal hygiene should be followed.
Handling: When using, do not eat, drink or smoke. Wash hands thoroughly after handling or contact. Thoroughly clean equipment after use. Do not contaminate drains, sewers and waterways when disposing of equipment rinse water. Emptied containers retain vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.
Storage: Minimum storage temperature –15C/Maximum storage temperature 50C. Compatible materials for storage are stainless steel, aluminum, fiberglass, plastic, glass lining. **Incompatible materials for storage** are galvanized steel, unlined mild steel.
OTHER PRECAUTIONS:. Keep away from food, drink and animal feed. Keep only in original container. Partial crystallization may occur on prolonged storage below the minimum storage temperature. If frozen, place in warm room and shake frequently to put back into solution. Keep out of reach of children

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: No special requirement when used as recommended.
PERSONAL PROTECTION EQUIPMENT: When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

EYES AND FACE: If there is significant potential for contact, wear chemical goggles.
RESPIRATORY: No special requirement when used as recommended.
GLOVES: No special requirement when used as recommended. If repeated or prolonged contact, wear chemical resistant gloves.
PROTECTIVE CLOTHING: Long sleeved shirt, long pants, shoes plus socks.

WORK HYGENIC PRACTICES: Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.
COMMENTS: Practice good care and good safety precautions when handling this product.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: Not Determined
MELTING POINT: Not Determined
VAPOR DENSITY (air = 1): Not Determined
ODOR: Sweet
APPEARANCE: Amber liquid
pH: 4.4 – 5.0

SPECIFIC GRAVITY: 1.169 @ 20C/15.6C
EVAPORATION RATE: Not Determined
VAPOR PRESSURE: Not Determined

SOLUBILITY IN WATER: Completely miscible
PERCENT VOLATILE: Not Determined
PARTITION COEFFICIENT (log POW): <0.00 (active ingredient)

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Not Applicable
STABILITY: Stable
POLYMERIZATION: Will not occur
INCOMPATIBLE MATERIALS: Reacts with galvanized steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition : carbon monoxide, phosphorus oxides, nitrogen oxides

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: (Rabbit) Slight irritation; FIFRA Category III
SKIN EFFECTS: (Rabbit) Essentially non-irritating; FIFRA Category IV
DERMAL LC_{50}: (Rat) >5000 mg/kg body weight – practically non toxic; FIFRA Category IV
ORAL LD_{50}: (Rat) 5,108 mg/kg body weight – practically non toxic; FIFRA Category IV
INHALATION LC_{50}: (Rat) 4 hours, aerosol, 2.9 mg/L – practically non-toxic; FIFRA Category IV
SENSITIZATION: (Guinea Pig) 0%
ACUTE EFFECTS FROM OVEREXPOSURE: May causes eye irritation
CHRONIC EFFECTS FROM OVEREXPOSURE: Not Data
CARCINOGENICITY: Glyphosate is not considered to be a carcinogen

IARC: Not Listed	**OSHA:** Not Listed
NTP: Not Listed	**OTHER:** Not Listed

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Do not apply directly to water, 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.
ECOTOXICOLOGICAL INFORMATION: Data obtained on product and components are summarized below:

Aquatic Toxicity, fish:		
Rainbow trout	96 hours, static, LC_{50}: 5.4 mg/L	Moderately toxic
Bluegill sunfish	96 hours, static, LC_{50}: 7.3 mg/L	Moderately toxic
Aquatic Toxicity, invertebrates:		
Water flea (Daphnia)	48 hours, static, EC_{50}: 11 mg/L	Slightly toxic
Avian Toxicity:		
Mallard duck	5 days, LC_{50}: >5,629 mg/kg diet	Practically non toxic
Bobwhite quail	5 days, LC_{50}: >5,620 mg/kg diet	Practically non toxic
Arthropod Toxicity:		
Honey bee	48 hours, LD_{50}: >100ug/bee	Practically non toxic
Soil Organism Toxicity, invertebrates:		
Earthworm	14 days, LC_{50}: >1m250 mg/kg soil	Practically non toxic
Bioaccumulation (N-(phosphonomethyl)glycine: {glyphosate}		
Bluegill sunfish	BCF: <1	No significant bioaccumulation expected

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:
Product: Keep out of drains, sewers, ditches and waterways. Recycle if appropriate facilities/equipment available. Burn in proper incinerator. Follow all federal, state, and local regulations.
Container: Empty packaging completely. Ensure packing cannot be reused. Emptied containers retain vapor and product residue. Triple or pressure rinse empty containers. Do NOT reuse containers. Store for collection by approved waste disposal service. Recycle if appropriate facilities/equipment available. Do NOT contaminate water when disposing of rinse waters. Follow all federal, state and local regulations.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation: Not Regulated
Proper Shipping Name: Not Regulated
Hazard Class: Not Applicable
U.S. Surface Freight Class: Tree or Weed Killing Compounds, NOI, Density of 20 lbs. Or greater per cu.ft.
Reportable Quantity (RQ): Not Applicable

ID NO.: Not Applicable
Marine Pollution #1: Not Applicable
HM 181 Shipping Name: Not Regulated

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Y **Immediate (Acute Health)**	**SEC 302:** Not Applicable
N **Delayed (Chronic Health)**	**SEC 304:** Not Applicable
N **Fire**	**SEC 313:** Not Applicable
N **Sudden Release of Pressure**	**CERCLA RQ:** Not Applicable
N **Reactivity**	**CAA RQ:** Not Applicable

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