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EMERGENCY PHONE: LESCO: (800) 321-5325
CHEMTREC: (800) 424-9300

DATE ISSUED: 2/26/07
SUPERSEDES: NEW

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Surflan® AS Specialty Herbicide
Chemical Family: Herbicide
Chemical Name/Synonyms: 3,5-Dinitro-N4,N4-dipropyl-sulfanilamide

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Oryzalin	40.4	19044-88-3	NE
Inert ingredients, Total, including:	59.6	--	--
Propylene Glycol		57-55-6	AIHA WEEL 50 ppm total 10 mg/M ³ aerosol only
Glycerin		56-81-5	10 mg/M ³ (total) 5 mg/M ³ (resp)

This document is prepared pursuant to the OSHA Hazard communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identify may be made available as provided in this standard.

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eyes, Skin, Inhalation, Ingestion
POTENTIAL HEALTH EFFECTS: Hazardous chemical. May cause eye and skin irritation. Contains component(s) which, in animals, have been shown to cause liver, kidney, bladder, spleen or blood effects. For propylene glycol, in humans, symptoms may include central nervous system depression (headache, dizziness, drowsiness, and incoordination).
EYE: May cause slight temporary eye irritation. Corneal injury is unlikely.
SKIN: Prolonged contact may cause skin irritation with local redness. Prolonged or frequently repeated skin contact may cause an allergic skin reaction in some individuals. Prolonged skin contact is unlikely to result in absorption of harmful amounts.
INHALATION: At room temperature, exposure to vapor is minimal low volatility; vapor from heated material may cause respiratory irritation and other effects.
INGESTION: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
MEDICAL CONDITIONS AGGRAVATED: Prolonged or frequently repeated skin contact may cause an allergic skin reaction in some individuals.
POTENTIAL ENVIRONMENTAL HAZARDS: Toxic to avian and aquatic organisms. This pesticide is toxic to fish. 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. Cover or incorporate spills.

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 the 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 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.
NOTES TO MEDICAL DOCTOR: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): No ignition up to 200F/93.3C (SCC)

Auto Ignition Temperature: Water based product

Lower Explosion Limits: Water based product

Upper Explosion Limits: Water based product

NFPA/HMIS Rating: Health: 2

Fire: 0 Reactivity: 0

EXTINGUISHING MEDIA:

Foam

Alcohol Foam

CO₂

Dry
Chemical

Water Spray

Water based suspension
and will not burn

EXPLOSION HAZARDS: This material will not burn until a sufficient amount of water has evaporated. At this point, the material will exhibit the flammability characteristics of propylene glycol and oryzalin. The explosive potential of oryzalin as an airborne dust is rated as severe. The minimum ignition temperature for a dust cloud is 714F/379C.

FIRE FIGHTING PROCEDURES: This product is a water based suspension and will not burn. However, if product is involved in a fire, wear positive-pressure, self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION PRODUCTS: Nitrogen oxides and other toxic gases and fumes may be formed if product is involved in a fire.

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: If material is spilled, use absorbent material to contain and clean up small spills and dispose as waste. For large spills, contact CHEMTREC at 800-424-9300. Prevent runoff.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES: Do not contaminate water, food, or feed by storage or disposal. Store in original container only. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes, and clothing. May cause skin sensitization reactions in certain individuals. Harmful if swallowed, inhaled, or absorbed through the skin. Causes eye irritation.

OTHER PRECAUTIONS: Keep out of reach of children.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Safety glasses

RESPIRATORY: For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use a NIOSH approved air-purifying respirator.

GLOVES: Chemical-resistant gloves

PROTECTIVE CLOTHING: Long-sleeved shirt and long pants, shoes plus socks

WORK HYGIENIC PRACTICES: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

COMMENTS: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 212F/100C

MELTING POINT: NA

VAPOR DENSITY (air = 1): 1.178 @ 25C

ODOR: Slight aromatic odor

APPEARANCE: Opaque bright orange liquid

pH: (aqueous 50/50) 5.0 to 6.8

SPECIFIC GRAVITY: 1.138 to 1.239 @ 25C

EVAPORATION RATE: NE

VAPOR PRESSURE: Approx 23 mm Hg @ 25C

SOLUBILITY IN WATER: Miscible

PERCENT VOLATILE: NE

BULK DENSITY (lbs./gal): 9.5 – 10.3

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: If the water in the mixture evaporates, the resultant mixture should be handled with care. The explosive potential of oryzalin as an airborne dust is rated as severe. The minimum ignition temperature for a dust cloud is 714F/379C.

STABILITY: Stable

POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides and other toxic gases and fumes may be formed if product is involved in a fire.

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: May cause slight temporary eye irritation. Corneal injury is unlikely.

SKIN EFFECTS: Prolonged contact may cause skin irritation with local redness. Prolonged or frequently repeated skin contact may cause an allergic skin reaction in some individuals. Prolonged skin contact is unlikely to result in absorption of harmful amounts

DERMAL LD₅₀: >5000 mg/kg

ORAL LD₅₀: >5000 mg/kg

INHALATION LC₅₀: >6.30 mg/L

SENSITIZATION: No Data

ACUTE EFFECTS FROM OVEREXPOSURE: May cause eye and skin irritation. Prolonged contact may cause skin irritation with local redness. Prolonged or frequently repeated skin contact may cause an allergic skin reaction in some individuals. Contains component(s) which, in animals, have been shown to cause liver, kidney, bladder, spleen or blood effects. For propylene glycol, in humans, symptoms may include central nervous system depression (headache, dizziness, drowsiness, and incoordination).

CHRONIC EFFECTS FROM OVEREXPOSURE: No Data

TERATOLOGY (BIRTH DEFECTS): Oryzalin did not cause birth defects in animals; other fetal effects occurred only at doses toxic to the mother.

REPRODUCTIVE EFFECTIVE: The majority of components, in animal studies, did not interfere with reproduction. Reproductive effects seen in female animals are believed to be due to altered nutritional states resulting from extremely high doses of glycerin given in the diet. Similar effects have been seen in animals fed synthetic diets.

MUTAGENICITY: For oryzalin and propylene glycol: in-vitro and animal mutagenicity studies were negative.

CARCINOGENICITY: Thyroid follicular cell tumors observed in rats were considered a secondary response caused by mechanisms not relevant to humans. Benign skin and adnexal tumors observed in rats may also have been secondary to thyroid effects.

IARC: Not Listed

OSHA: Not Listed

NTP: Not Listed

OTHER: Not Listed

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA:

Toxic to avian and aquatic organisms. This pesticide is toxic to fish. 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. Cover or incorporate spills.

ECOTOXICOLOGICAL INFORMATION:

Based largely or completely on information for oryzalin. Material is highly toxic to aquatic organisms on an acute basis (LC₅₀ or EC₅₀ is between 0.1 and 1 mg/L in most sensitive species). Material is slightly toxic to birds on an acute basis (LD₅₀ is between 501 and 2000 mg/kg).

Oral LD₅₀: Bobwhite (*Colinus virginianus*) 1046 mg/kg

Contact LD₅₀: Honeybee (*Apis mellifera*) >100 µg

Oral LD₅₀: Honeybee (*Apis mellifera*) >110 µg

MOVEMENT & PARTIONING:

Based largely or completely on information for oryzalin. Bioconcentration potential is low (BCF is <100 or Log Pow <3).

DEGRADATION & PERSISTENCE:

Based largely or completely on information for oryzalin. Degradation is expected in the soil environment within days to weeks

XIII. DISPOSAL CONSIDERATIONS

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

Product: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation:

Not Regulated

Proper Shipping Name:

NA

Hazard Class:

NA

U.S. Surface Freight Class:

20 Compounds, tree or weed killing (Herbicides),NOI, other than poison

Marine Pollutant #1:

NA

HM 181 Shipping Name:

NA

ID NO.:

NA

Reportable Quantity (RQ):

NA

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**SEC 311/312:****Y Immediate (Acute Health)****N Delayed (Chronic Health)****N Fire****N Sudden Release of Pressure****N Reactivity****SEC 302 (Extremely Hazardous Substance): NA****SEC 304 (Emergency Release Notification): NA****SEC 313 (Toxic Chemicals): Oryzalin (19044-88-3) 40.4%****CERCLA RQ:** NA**CAA RQ:** NA**EPA Registration No.:** 70506-44-10404

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

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