SECTION 1 - PRODUCT AND MANUFACTURER INFORMATION

TRADE NAMES AND SYNONYMS
Lindane 30C Flowable Insecticide (neutral)

CHEMICAL NAMES AND SYNONYMS
Lindane

MANUFACTURER’S INFORMATION
Gustafson LLC
1400 Preston Road, Suite 400
Plano, TX  75093
(972) 985-8877 (8:00am-5:00pm Central Time)
(972) 964-6544 (FAX)
www.gustafson.com

CHEMICAL FAMILY
Mixture

SECTION 2 – COMPOSITION AND INGREDIENT INFORMATION

<table>
<thead>
<tr>
<th>CHEMICAL NAME (INGREDIENTS)</th>
<th>CAS NUMBER</th>
<th>HAZARD</th>
<th>% BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,3,4,5,6-Hexachlorocyclohexane  \textit{(Lindane)}</td>
<td>58-89-9</td>
<td>Potential Carcinogen</td>
<td>30</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>Irritant</td>
<td>10-15</td>
</tr>
<tr>
<td>*Proprietary Binder</td>
<td>*</td>
<td>Irritant</td>
<td>15-20</td>
</tr>
<tr>
<td>*Emulsifier</td>
<td>*</td>
<td>Irritant</td>
<td>*</td>
</tr>
<tr>
<td>*Thickener</td>
<td>*</td>
<td>Nuisance Particle</td>
<td>*</td>
</tr>
</tbody>
</table>

*Trade secret information available as provided in 29 CFR 1910.1200 (i)

For EXPOSURE GUIDELINES, Page 4 - See Section 8 of this MSDS

SECTION 3 - HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE

ACUTE (SHORT TERM EXPOSURE):
May be fatal if swallowed. May be harmful if absorbed through skin. Harmful if inhaled. Can cause irritation of nose and throat or skin. Causes skin and eye irritation. If ingested, this product may produce liver and kidney damage. Acute exposure can cause dizziness, headache, vomiting, diarrhea, tremors, weakness, convulsions, dyspnea, cyanosis and circulatory collapse.
SECTION 3 - HAZARDS IDENTIFICATION - Continued

CHRONIC (LONG TERM EXPOSURE):

Lindane may produce liver and kidney toxicity. Lindane is considered by the NTP to have a B2 rating which means a combination of sufficient evidence for carcinogenicity in animals and inadequate or no evidence in humans. Based upon chronic feeding studies, Lindane can cause cancer in laboratory animals. Ethylene glycol may cause CNS depression and kidney damage. Ethylene glycol has been shown to produce dose-related teratogenic effects in rats and mice. There is, however, no information suggesting that Ethylene glycol has caused birth defects in humans.

GENERAL PRECAUTIONS:

Always practice good industrial hygiene; handle with care; avoid personal contact. Do not get into eyes or on skin; do not breathe mist or vapor of product. Do not swallow. Wash hands with soap and water and rinse after handling product. Shower after each shift. Wash all work clothing and completely clean all PPE (personal protective equipment) after each shift.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:

N/E

PRIMARY ROUTE OF ENTRY:  ☒ INHALATION   ☐ INGESTION   ☒ ABSORPTION

SECTION 4 - FIRST AID INFORMATION

Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses after the first 5 minutes then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.

IF ON 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.

IF INHALED: 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.

IF SWALLOWED: Immediately call a Poison Control Center or doctor. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: (ANTIDOTE)

Lindane is a violent poison and central nervous system stimulant. Symptoms include conjunctivitis, ecchymosis, headache, staggering, fever, nausea, vomiting, mental confusion, and irritation to the respiratory system. Symptoms result in pulmonary edema, dilation to the heart, extensive necrosis to blood vessels in lungs, liver & kidney, fatty degeneration to liver and kidney and some cases of hypoplastic anemia have been reported. In case of ingestion, administer gastric lavage followed by saline catharsis. Give Phenobarbital for normal sedation and potassium gluconate for muscular cramps; prescribe high calcium, high carbohydrate, and high vitamin intake. Contains petroleum distillate – vomiting may cause aspiration pneumonia.

SECTION 5 - FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>FLASH POINT</th>
<th>FLAMMABLE LIMITS</th>
<th>LOWER EXPLOSIVE LIMIT (LEL)</th>
<th>UPPER EXPLOSIVE LIMIT (UEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 200° F</td>
<td>N/E</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>

EXTINGUISHING MEDIA:

☒ FOAM  ☑ CO₂  ☑ DRY CHEMICAL  ☑ WATER SPRAY  ☒ OTHER (SPECIFY):  Water Fog

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing and NIOSH/MSHA approved self-contained breathing apparatus if involved in fire. Prevent unauthorized entry into fire area. If exposed to contaminated smoke, individuals should be immediately relieved of duty and checked for symptoms of poisoning.
SECTION 5 - FIRE FIGHTING MEASURES - Continued

UNUSUAL FIRE AND EXPLOSION HAZARDS:
May decompose under fire and give off toxic materials. These can include chlorine, hydrogen chloride, phosgene, trichlorobenzene and oxides of carbon.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Wear appropriate safety equipment. Absorb on suitable dry absorbent and shovel or sweep-up and place into an approved DOT container and seal. Scrub contaminated area with detergent and handle as above. Repeat as necessary. Flush area with water while observing proper environmental considerations.

REPORTABLE QUANTITY (RQ) UNDER CERCLA:
RQ for Lindane = 1 lb. [42 fl. oz. or >0.3 gals. of this product]
RQ for Ethylene glycol = 5,000 lbs. [>3,401 gals. of this product]

SECTION 7 - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURES:
MAX 120 °F MIN 5 °F ☒ INDOOR ☐ OUTDOOR ☐ REFRIGERATED

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Store in cool place. Do not store in direct sunlight. Protect from freezing temperatures. Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Approximate Freeze Point is 0-5 °F.

OTHER PRECAUTIONS
May be fatal if swallowed, inhaled or absorbed through skin. Causes substantial, but temporary eye injury. Causes skin irritation. Do not get in eyes, on skin or on clothing. Avoid breathing vapors. This product should be applied in a well-ventilated area. Avoid contamination of feed and foodstuffs. Do not store with food. Do not store with feed or forage to be fed to dairy animals or to animals being finished for slaughter.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS:
Local exhaust or general ventilation to maintain exposure below PEL.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: Chemical safety goggles or full-face safety shield. Contact lenses should not be worn when working with this chemical.

HAND/SKIN PROTECTION: Chemical resistant gloves (barrier laminate, nitrile rubber, neoprene rubber or Viton). Body coveralls (or long-sleeved shirt and pants), shoes plus socks.

RESPIRATORY PROTECTION: Respirator with an organic-vapor cartridge with a prefilter approved for pesticides or a canister approved for pesticides or a NIOSH approved respirator with an organic vapor (OV) cartridge/canister with any R, P or HE prefilter.

WORK PRACTICES:
Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product’s concentrate. Do not reuse them. Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions are available for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

NOTE TO END-USERS: The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.
SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION - Continued

EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>OSHA Permissible Exposure Limit (PEL)</th>
<th>ACGIH Threshold Limit Value (TLV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lindane</td>
<td>58-89-9</td>
<td>0.5 mg/m³ (SKIN)</td>
<td>0.5 mg/m³ (SKIN)</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td>N/E</td>
<td>100 mg/m³ (C)</td>
</tr>
<tr>
<td>Proprietary binder*</td>
<td>*</td>
<td>5 mg/m³ (SKIN)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>*Emulsifier</td>
<td>*</td>
<td>100 ppm</td>
<td>100 ppm</td>
</tr>
<tr>
<td>*Thickener</td>
<td>*</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>

*Trade secret information available as provided in 29 CFR 1910.1200 (i)
** 1989 Vacated PEL

VALUES ARE 8-HR. TIME-WEIGHTED-AVERAGES UNLESS OTHERWISE SPECIFIED

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid
pH (AS IS): 6.6 - 8.5
BOILING POINT (°F): 217
SOLUBILITY (WATER): Miscible
BULK DENSITY: N/A
SPECIFIC GRAVITY: 1.18 (9.5 – 9.8 lbs./gal.)
COLOR: Off White - Tan
VAPOR DENSITY (Air = 1): N/E
EVAP. RATE (BuAc=01): N/E
VAPOR PRESSURE (mmHg): N/E
FREEZING POINT (°F): 0
VISCOSITY: 500-600 cps
ODOR: Faint
% VOLATILE BY VOLUME: N/E

SECTION 10 - STABILITY AND REACTIVITY INFORMATION

CONDITIONS TO AVOID: Excessive heat, strong bases.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong bases, powdered metals.
HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine, hydrogen chloride, phosgene, trichlorobenzene and oxides of carbon.
STABILITY: ☒ STABLE ☐ UNSTABLE
HAZARDOUS POLYMERIZATION: ☐ WILL OCCUR ☒ WILL NOT OCCUR

SECTION 11 - TOXICITY INFORMATION

ORAL LD₅₀
Rat > 200 mg/kg
DERMAL LD₅₀
Rabbit > 2,000 mg/kg
INHALATION LC₅₀
Rat > 5.5 mg/L/hr.

EFFECTS TO EYES:
Irritant.
EFFECTS TO SKIN:
Irritant.
SECTION 11 - TOXICITY INFORMATION - Continued

CARCINOGENICITY REFERENCE SOURCES:

<table>
<thead>
<tr>
<th>I.A.R.C.</th>
<th>N.T.P.</th>
<th>O.S.H.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Yes</td>
<td>☒ Yes*</td>
<td>☐ Yes</td>
</tr>
<tr>
<td>☒ No</td>
<td>☐ No</td>
<td>☒ No</td>
</tr>
</tbody>
</table>

*Lindane (CAS# 58-89-9) - 30% of this product is classified by NTP as Group 2, a combination of sufficient evidence in experimental animals and limited evidence in humans.

SECTION 12 - ECOLOGICAL INFORMATION

This product is toxic to fish, birds and wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Exposed treated seeds may be hazardous to birds or other wildlife. Dispose of all excess treated seed by burial away from bodies of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

SECTION 13 - DISPOSAL CONSIDERATIONS

RCRA – FEDERAL HAZARDOUS WASTE INFORMATION:

Lindane (CAS# 58-89-9) – U129 (D013)*

*See 40 CFR Part 261 and contact your local regulatory agency for additional information & requirements.

PESTICIDE DISPOSAL:

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture 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 DISPOSAL:

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

SECTION 14 - TRANSPORT INFORMATION

REGULATED BY:

☒ Domestic Road/Rail (DOT)
☒ Export Water (IMO)
☒ Air (ICAO/IATA)
☐ Not regulated as a hazardous material by any mode of transportation.

DOMESTIC ROAD/RAIL (DOT)

For Package Sizes: 2x2½ gals., 30’s, 50-R
Proper Shipping Name: RQ, Organochlorine pesticides, Liquid, Toxic, 6.1, UN2996, PGIII, (Lindane)
ERG Number: 151

For Package Sizes: 200 gal. and 400 gal. Bulk
Proper Shipping Name: RQ, Organochlorine pesticides, Liquid, Toxic, 6.1, UN2996, PGIII, (Lindane), Marine Pollutant
ERG Number: 151
Placard: Class 6 – Harmful-Stow Away From Foodstuffs (> 1,001 lbs.)

Marine Pollutant? ☒ Yes ☐ No

Chemical(s): Lindane

EXPORT WATER (IMO)

Contact Gustafson LLC Environmental Health & Safety for additional information.

AIR (ICAO/IATA)

Contact Gustafson LLC Environmental Health & Safety for additional information.

FREIGHT TARIFF DESCRIPTION

Rate As: Insecticide/Fungicide, Agriculture, N.O.I., Liquid
SECTION 15 - REGULATORY INFORMATION

SARA HAZARD CATEGORY  This product has been reviewed according to the EPA Hazard Categories promulgated under Section 311 and 312 of the Superfund Amendments and Reauthorization Act Of 1986 (Sara Title III) and is considered, under applicable definitions, to meet the following categories:

CERCLA/SARA:  Immediate (acute), delayed (chronic)
TPQ:  Lindane = 1,000/10,000 lbs. (EHS)
RQ:  Lindane = 1 lb.  [42 fl. oz. or >0.3 gals. of this product]
Ethylene glycol = 5,000 lbs.  [>3,401 gals. of this product]

SARA 313 INFORMATION  This product contains the following substances subject to the reporting requirements of SARA Title III, Section 313 and 40 CFR Part 372:

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lindane</td>
<td>58-89-9</td>
<td>30%</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>15% (max.)</td>
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STATES RIGHT-TO-KNOW LISTS

<table>
<thead>
<tr>
<th>CHEMICAL &amp; CAS #</th>
<th>CA (Prop. 65)</th>
<th>FL (Toxic Subs.)</th>
<th>MA (Haz. Subs.)</th>
<th>MI (Critical Materials)</th>
<th>MN (Haz. Subs.)</th>
<th>NJ (RTK Haz. Subs.)</th>
<th>NY (Haz. Subs.)</th>
<th>PA (Haz. Subs.)</th>
<th>WA (PEL for Air)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lindane (CAS# 58-89-9)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethylene glycol (CAS# 107-21-1)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS ON THE CLEAN AIR ACT (CAA) LIST OF HAZARDOUS AIR POLLUTANTS (HAP's):
- Lindane (CAS# 58-89-9)
- Ethylene glycol (CAS# 107-21-1)

THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS ON RCRA P OR U LISTS OF FEDERAL HAZARDOUS WASTE:
- Lindane (CAS# 58-89-9) - U129 (and D013)*
* See 40 CFR Part 261 and contact your local regulatory agency for additional information and requirements.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>0</td>
<td>J</td>
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</table>

NFPA RATING

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
<th>SPECIFIC HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

ABBREVIATION KEY

- N/A = Not Applicable
- N/D = Not Determined
- N/E = Not Established
- C = Ceiling Limit
- rf = Respirable Fraction
- td = Total Dust
- STEL = Short Term Exposure Limit
- SKIN = Skin Notation

REFERENCES

THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF GUSTAFSON LLC. THE DATA ON THIS SHEET RELATE ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. GUSTAFSON LLC ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THESE DATA.