



Hill and Griffith Company Safety Data Sheet



This product is NSF Approved

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements. This information should be given to all individuals who may come in contact with this material.

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME (s): Grifcote® LV-50 Plus
Description: Release Agent

SUPPLIER: The Hill & Griffith Co.
1085 Summer Street
Cincinnati, Ohio 45204
(513) 921-1075 Fax:(513) 921-9180

EMERGENCY

TELEPHONE: (800) 424-9300
Call Chemtrec

Produced by The Hill and Griffith Co. 3637 Farnsworth Ave, Indianapolis, IN 46241

2.0 HAZARD IDENTIFICATION

Emergency Overview

Appearance: Viscous liquid
Color: Clear, pale yellow
Odor: Oily

This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

GHS Classification

Aspiration hazard: Category 1

GHS Label element

Hazard Pictograms



Signal word:

Hazard Statements

DANGER

May be fatal if swallowed and enter airways.

Precautionary statements

Prevention:

No precautionary phrases.

Response:

IF SWALLOWED: Immediately call a Poison Center or Doctor / physician. Do NOT induce vomiting.

Storage:
Store locked up

Disposal:
Dispose of contents / container to an approved waste disposal facility in accordance with applicable laws and regulation, and product characteristic at time of disposal. See section 13 of the SDS for disposal instruction.

Potential Health Effects

Principle Routes of Exposure: Inhalation, Skin contact, Eye contact, Ingestion
Aggravated Medical Condition: None known.

Acute Toxicity

Eyes: May cause eye irritation.

Skin: May cause skin irritation. Wash thoroughly after handling.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

Ingestion: Because of its low viscosity, this material can directly enter the lungs if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death. Ingestion may cause irritation and malaise.

Chronic Effects: Prolonged or repeated skin contact can clog the pores of skin, resulting in disorders such as oil acne/folliculitis. May defat the skin and produce dermatitis. See Section 11 for complete health hazard information.

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, OSHA, or NTP.

3.0 COMPOSITION / INFORMATION ON INGREDIENTS

| <u>CHEMICAL NAME</u> | <u>CAS – No</u> | <u>Weight%</u> |
|--|-----------------|----------------|
| Hazardous Components | | |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | 45 – 55 |
| Non-hazardous Components with Exposure Limits | | |
| Vegetable Oil | *Mixture | 45 – 55 |

* Mixture is composed of one or more of the following CAS#: 8001-26-1, 8001-22-7, 8001-29-4, 8001-30-7, 8002-03-7, 120962-03-0, 8023-79-8, 8001-31-8, 8001-25-0, 61789-97-7, 61789-99-9, 8002-75-3

**There are no additional ingredients present, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4.0 FIRST-AID MEASURES

INHALATION: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms such as coughing or respiratory discomfort occur, obtain medical attention.

SKIN CONTACT/ABSORPTION: Wash skin thoroughly with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.

EYE CONTACT: Flush with large amounts of clear flowing water for at least 15 minutes. As a precaution remove any contact lenses, if worn. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. If irritation persists, seek medical attention.

INGESTION: Do NOT induce vomiting. If spontaneous vomiting occurs, place the victim's head below knee level. Never give anything by mouth to an unconscious person. As a precaution get medical advice.

PROTECTION OF FIRST-AIDERS: No action shall be taken involving any personal risk or without suitable training.

NOTE TO PHYSICIAN: Treat symptomatically. Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid into the lungs, which may cause pneumonitis. Signs include coughing, wheezing, difficulty breathing, chest congestions, shortness of breath, and/or fever. Contact poison treatment specialists immediately if large quantities have been ingested or inhaled.

5.0 FIRE FIGHTING MEASURES

NFPA 704 Hazard Class

Health: 1 Flammability: 1 Instability: 0
(0=minimal, 1=slight, 2=moderate, 3= serious, 4=severe)

FLASHPOINT: (Cleveland Open Cup) > 350°F (177°C)

FLAMMABLE LIMITS **LEL:** Not determined **UEL:** Not determined

AUTOIGNITION TEMPERATURE: Not expected to auto-ignite

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical, water fog. Do not use water jet.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This material will burn although it is not easily ignited. Highly dependent on combustion conditions. A complex mixture of airborne solid, liquid, particulate, and gases will evolve when this material undergoes pyrolysis or combustion. Oxides of carbon and other unidentified organic compounds may be formed upon combustion.

FIRE FIGHTING EQUIPMENT: Wear self-contained breathing apparatus with a full face-piece operated in the positive pressure demand mode when fighting fires.

6.0 ACCIDENTAL RELEASE MEASURES

Isolate area and limit access. Local authorities should be notified if spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Remove source of heat, sparks, and flame. Stop source of leak if possible to do so without hazard. Keep upwind of spill. No smoking in area.

For small spill, dike area and take up using sand or other absorbent material (e.g. cloth, fleece, sand, clay, silica gel). For large spill, dike area ahead of spill and ventilate closed areas before entry. Take up using sand or other inorganic absorbent and place in containers for later disposal or recovery. Prevent material from entering waterways. If material does enter waterways, please contact the appropriate authorities immediately. Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

7.0 HANDLING AND STORAGE

Handling & Storage: Always segregate materials by major hazard class. Product should be handled and stored in accordance with industry accepted practices. Store in properly closed containers that are well labeled. Store in a dry, cool, well-ventilated area. Store away from heat, open flame, strong oxidizers, or other sources of ignition. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Worker should wash face and

hands before eating, drinking and smoking. Electrostatic charge may accumulate and create hazardous conditions when handling this product. Use non-sparking tools and take precautionary measures against electrostatic discharges. For more information, refer to OSHA Standard 29 CFR 1910.106 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77), 'Recommended Practice on Static Electricity' and /or the American Petroleum Institute (API) Recommended 2003 'Protection Against Ignitions Arising out of Static, Lightning, and stray currents'.

8.0 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE GUIDELINES:

| <u>Ingredient</u> | <u>CAS Number</u> | <u>Exposure Limits</u> |
|--|-------------------|---|
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | *Oil mist |
| *Oil Mist | | 5 mg/M ³ (ACGIH TWA) 10 mg/M ³ (ACGIH TLV/STEL) |
| Vegetable Oil | **Mixture | 5 mg/m ³ (OSHA PEL, respirable fraction) 15 mg/m ³ (OSHA PEL, total dust) 5 mg/m ³ (NIOSH TWA, respirable) 10 mg/m ³ (NIOSH TWA, mist) |

** Mixture is composed of one or more of the following CAS#: 8001-26-1, 8001-22-7, 8001-29-4, 8001-30-7, 8002-03-7, 120962-03-0, 8023-79-8, 8001-31-8, 8001-25-0, 61789-97-7, 61789-99-9, 8002-75-3

ENGINEERING CONTROLS: Adequate ventilation should be provided whenever the material is heated or mists are generated. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Local or general exhaust required when using material at elevated temperatures, which accelerates generation of vapors.

INHALATION PROTECTION: Not Normally Required. If user generates an oil mist, determine if airborne concentrations are below exposure limit for an oil mist. If not, wear an approved respirator that provides adequate protection from measured concentrations of this material. For air-purifying respirators use an organic vapor cartridge. Use positive pressure air-supplying respirator in circumstances where air-purifying respirators may not be adequate protection.

EYE PROTECTION: Use safety glasses with side shields or goggles when transferring material to prevent material from splashing into the eye.

SKIN PROTECTION: Chemical resistant gloves are required. If contact with forearms is likely, wear gauntlet style gloves. Selection of specific items such as boots, apron, or full body suit will depend on the task. Chemical or stain resistant apron or clothing is recommended. Launder contaminated clothing before reuse. Wash after handling the material and before eating, drinking, or smoking. Discard contaminated footwear that cannot be cleaned.

9.0 CHEMICAL AND PHYSICAL INFORMATION

| | |
|---|--|
| Appearance and Odor: Clear, pale yellow liquid with oily odor | Melting Point: NA |
| Water Solubility: Negligible | Flash Point: > 350°F (177°C) |
| Boiling Range: > 500°F (260°C) | Vapor Density (air=1): >1 |
| Vapor Pressure (mmHg): <0.02 @ 100° F | Viscosity: 85 – 115 SUS @ 100°F |
| pH: NA | Specific Gravity (water=1): 0.85 – 0.91 at 60° F |
| API Gravity: 24 – 34 | |

10.0 STABILITY AND REACTIVITY

STABILITY: Stable under normal temperature and pressure.

CONDITIONS TO AVOID: High temperature. Heat and open flames. "Empty" product containers may retain product residue. Do not pressurize, cut, braze, weld, heat, or expose to flame; they may explode and cause injury or death.

MATERIALS TO AVOID: Strong oxidizers or strong acids, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS DECOMPOSITION: Thermal decomposition is highly dependent on the combustion conditions. A complex mixture of airborne solid, liquid, particulate, and gases will evolve when this material undergoes pyrolysis or combustion. Oxides of carbon and other unidentified organic compounds may be formed upon combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

11.0 TOXICOLOGICAL INFORMATION

Serious eye damage/irritation: Slight eye irritant.

Skin corrosion/irritation: Mild skin irritant. May cause defatting of the skin. Prolonged skin contact may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not classified

Skin Sensitization Not classified

Germ cell mutagenicity: Not classified

Teratogenicity: Not classified

Reproductive toxicity: Not classified

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Aspiration Hazard: Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis, which can be fatal.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed

Specific target organ toxicity – Single exposure Not classified

– **Repeated exposure** Not classified

Acute Toxicity

Eyes: May cause eye irritation.

Skin: May cause skin irritation. Wash thoroughly after handling.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

Ingestion: Because of its low viscosity, this material can directly enter the lungs if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death. Ingestion may cause irritation and malaise.

Acute Toxicity Data

Dermal LD50: No data available

Oral LD50: No data available

Inhalation LC50: No data available

Chronic Effects: Prolonged or repeated skin contact can clog the pores of skin, resulting in disorders such as oil acne/folliculitis. May defat the skin and produce dermatitis.

12.0 ECOLOGICAL INFORMATION

ECOTOXICITY:

No data available.

ENVIRONMENTAL FATE:

Biodegradability: Ultimately biodegradable.

Bioaccumulation: No data available.

Mobility in Soil: No data available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component other than those associated with oil spills.

13.0 DISPOSAL INFORMATION

Waste generated during application, demolition, breakage, or spillage may be hazardous waste as defined by RCRA (40 CFR Part 261). Place waste and spillage in closed containers. Do not dump into any sewers, on the ground, or into any body of water. Dispose of in approved landfill in accordance with federal, state, and local regulations. Do not pollute. Conserve resources. Empty containers should be taken to an approved waste handling site for recycling or disposal. Since empty containers may retain product residue, follow label warnings even after container is emptied. Do not pressurize, cut, weld, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition as this may cause them to explode. Offer rinsed packaging material to local recycling facilities.

14.0 TRANSPORTATION INFORMATION

DOT: Not regulated for transportation

HAZARD CLASS: Not Regulated

IDENTIFICATION NUMBER: None

15.0 REGULATORY INFORMATION

CERCLA SECTIONS 102A / 103 HAZARDOUS SUBSTANCES (40 CFR PART 302.4): Not Regulated

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR PART 344): Not Regulated

SARA TITLE III SECTION 311/312 SDS Distribution – Chemical Inventory

Superfund Amendments and Reauthorization act of 1986 (SARA)

| | |
|--------------------------|-------------------------|
| Hazard Categories | Aspiration hazard - yes |
|--------------------------|-------------------------|

SARA TITLE III SECTION 313 (40 CFR PART 372): None

TSCA U.S. INVENTORY: All ingredients listed on inventory or exempted.

OSHA HAZARD COMMUNICATION STANDARD: This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

WHMIS CONTROLLED PRODUCT CLASSIFICATION: This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

EC INVENTORY (EINECS / ELINCS): All components comply with the chemical inventory requirements.

CANADA INVENTORY (DSL): All components comply with the chemical inventory requirements.

State regulations:

US – Massachusetts RTK – Substance: Listed substance

Vegetable Oil (CAS# Mixture*) Listed

US – Pennsylvania RTK – Hazardous substances: Listed substance

Vegetable Oil (CAS# Mixture*) Listed

*Mixture is composed of one or more of the following CAS# : 8001-26-1, 8001-22-7, 8001-29-4, 8001-30-7, 8002-03-7, 120962-03-0, 8023-79-8, 8001-31-8, 8001-25-0, 61789-97-7, 61789-99-9, 8002-75-3

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product does not contain chemical(s) known to the State of California to cause cancer or birth defects.

16.0 OTHER INFORMATION

HMIS RATINGS: Health: 1 Flammability: 1 Reactivity: 0

This Safety Data Sheet conforms to the requirements of 29 CFR 1910.1200. As of the date of preparation of this document, the forgoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.

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Title: Plant Manager

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