

MATERIAL SAFETY DATA SHEET

-----SECTION 1 – Chemical Product and Company Identification-----

PRODUCT NAME: Trade Name - LF150 REVISION DATE 07/14/2004
PRODUCT DESCRIPTION: Vegetable based adhesive SUPERSEDES 05/10/2004
MANUFACTURER: Schaefer Machine Co., Inc Transportation Emergency Phone Number
200 Commercial Drive ChemTrec: 800-424-9300
Deep River, CT 06417
(860) 526-4000 Non-Transportation Emergency
(860) 526-4000

-----SECTION 2 – Composition and Information on Ingredients-----

Unlisted ingredients are not "hazardous" per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for any addition exposure limit guidelines.

Chemical Name	CAS#	PERCENT	OSHA PEL
Sodium Nitrate	7631-99-4	10-30	Not Established

-----SECTION 3 – Hazards Identification-----

Emergency Overview:

HMIS RATING: HEALTH – 0 FLAMMABILITY – 0 REACTIVITY – 0 See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY

EYE: No irritation hazard in normal industrial use
SKIN: No irritation hazard in normal industrial use
INHALATION: No Irritation hazard in normal industrial use
INGESTION: Ingestion is not an anticipated route of exposure. No hazard in normal industrial use.

LONG-TERM (CHRONIC) HEALTH EFFECTS:

TARGET ORGAN(S): No Organs known to be damaged from exposure to this product

REGULATED CARCINOGEN STATUS:

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE:

No medical conditions affected by exposure.

-----SECTION 4 – First Aid Measures-----

If in Eyes: None expected to be needed, however, use an eyewash to remove a chemical from your eye regardless of the level of hazard.
If on Skin : Wash with soap and water.
If vapors Inhaled: This material does not present a hazard in inhaled. Remove individual to fresh air after
an airborne exposure if any symptoms develop, as a precautionary measure.
If Swallowed: Do not induce vomiting. Seek medical attention if symptoms develop. Provide

the medical care provider with this MSDS. Induced vomiting may lead to aspiration of material into the lungs potentially causing chemical pneumonitis that may be fatal.

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----- SECTION 5 – Fire Fighting Measures -----

- Flash Point:** Not flammable
- Autoignition Temperature:** Not established
- Lower Explosive Limit (% in air):** Not established
- Upper Explosive Limit (% in air):** Not established
- Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.
- Unusual Fire and Explosion Hazards:** There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.
- Special Fire Fighting Instructions:** Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.
- Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide Nitrogen containing gases

----- SECTION 6 – Accidental Release Measures -----

- Special Protection:** No adverse health effects expected from the clean up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this MSDS.
- Clean-up:** Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.

Transport Emergency Phone Number (CHEMTREC) 1-800-424-9300

----- SECTION 7 – Handling and Storage -----

- Handling:** No special handling instructions due to toxicity.
- Storage:** Store in a cool, dry place.

Consult the Technical Data Sheet for specific storage instructions.

----- SECTION 8 – Exposure Controls/Personal Protection -----

- Eye Protection:** Wear safety glasses when handling this product.
- Skin Protection:** Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
- Gloves:** Not normally required. Use nitrile gloves if conditions warrant.
- Respiratory Protection:** No respiratory protection required under normal conditions of use. Respirators should be selected by and used following requirements found in OSHA'S respirator standard (29 CFR 1910.134).
- Ventilation:** General room ventilation might be required under normal conditions of use.

Exposure Limits:

Chemical Name

ACGIH Exposure Limits

AIHA WEEL

Sodium nitrate

Not Established

Not Established

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----- **SECTION 9 – Physical and Chemical Properties** -----

Physical State: Liquid
Color: Amber
Odor: Sweet Mild
Odor Threshold: Not established
Weight per gallon (lbs): 10.5
Specific Gravity: 1.26
Solids (% by weight): 58.0
pH: 4.9
Boiling Point (deg C): Not Established
Freezing/Melting Point (deg. C): Not Established
Vapor Pressure (mm Hg): Not Established
Vapor Density: Not Established
Evaporation Rate: Not Established
Octanol/Water Coefficient: Not Established

----- **SECTION 10 – Stability and Reactivity** -----

Stability: Stable under normal conditions
Chemical Incompatibility: Not Established
Hazardous Polymerization: Will not occur
Hazardous Decomposition: Carbon monoxide, carbon dioxide Nitrogen containing gases

----- **SECTION 11 – Toxicological Information** -----

Chemical Name: Sodium Nitrate
LD50/LC50: Oral LD50 Rat = 1267 mg/kg
Toxicology Summary: No additional health information available

----- **SECTION 12 – Ecological Information** -----

Overview: No additional health information available

----- **SECTION 13 – Disposal Considerations** -----

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

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----- SECTION 14 – Transport Information-----

Consult Bill of Lading for Transportation Information

DOT: Not Regulated

IATA: Not Regulated

----- SECTION 15 – Regulatory Information-----

INVENTORY STATUS

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's Inventory requirements

Canadian CEPA DSL: This product is in compliance with the Canadian Domestic Substance List requirements.

If you need more information about the inventory status of this product call 860-526-4000

This product may contain substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administrations, among others) Before exporting this product from the USA or Canada, we recommend you contact us at 860-526-4000 (USA) to request an export review.

FEDERAL REPORTING

EPA SARA TITLE III SECTION 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 72. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS #	%
Nitrate compounds	7631-99-4	10-30

Water dissociable nitrate compounds; reportable only when in aqueous solution.

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.

STATE REPORTING:

This MSDS is not prepared for distribution in California.

----- SECTION 16 – Additional Information-----

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information Systems (WHMIS).

Prepared by: The Global Regulatory Department
Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to the Schaefer Machine Company from its suppliers, and because the Schaefer Machine Company has no control over the conditions of handling and use, the Schaefer Machine Company makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for the information and considerations, and the Schaefer Machine Company assumes no responsibility for use or reliance thereon. It is the responsibility of the user of Schaefer Machine Company products to comply with all applicable federal, state and local laws and regulations.