



Flex-Light®
Letterflex® Systems

5210 Phillip Lee Drive
Atlanta, GA 30336
24 Hour Emergency
Chemtrec: 800-424-9300

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

TRADE NAME: Solvit®

SYNONYMS: NA

II. HAZARDOUS COMPONENTS

<u>Components</u>	<u>CAS #</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Petroleum Hydrocarbon*	*	66	NE	NE
Aliphatic Alcohol*	*	33	50 ppm (skin)	50 ppm (skin)

* The specific chemical identity is a Trade Secret and is therefore not being disclosed in the MSDS. The MSDS includes health hazard information for these compounds. Potential hazard information is not being withheld. The specific chemical identity will be provided upon request by a physician or other health-related personnel.

NA = Not Applicable NE = Not Established

III. PHYSICAL DATA

BOILING POINT: 353-390°F at 760 mm Hg

MELTING POINT: Liquid at room temperature

SPECIFIC GRAVITY (H₂O=1): 0.87 @ 60°F

VAPOR PRESSURE: 1 mm @ 100°F

VAPOR DENSITY (AIR=1): 4.0

SOLUBILITY IN H₂O: Less than 0.1% @ 77°F

% VOLATILES BY VOLUME: 100

EVAPORATION RATE: 0.1 (Butyl Acetate = 1)

APPEARANCE AND ODOR: Clear, colorless liquid; aromatic hydrocarbon odor.

VOC'S: 100%

WEIGHT: 7.3 Pounds per Gallon

IV. FIRE AND EXPLOSION DATA

FLASH POINT: 145°F minimum, Pensky-Martens Closed Cup

NFPA 704: Health 2 Flammability 2 Reactivity 0

AUTO IGNITION TEMPERATURE: ~802°F

EXPLOSIVE LIMITS IN AIR:

Lower Explosion Limit: ~1.8%

Upper Explosion Limit: ~11.7%

EXTINGUISHING MEDIA: Carbon Dioxide, foam, water spray, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: Combustible liquid. May ignite if exposed to heat, sparks or open flame. Could generate oxides of Carbon and other decomposition products of undetermined hazard.

EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION AS THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

V. REACTIVITY DATA

STABILITY: Product is stable.

INCOMPATIBILITY: Sulfuric acid, strong oxidizing agents, inorganic acids, halogens, aldehydes, acid anhydrides, alkylene oxides, monomers and polymerizable esters.

HAZARDOUS DECOMPOSITION PRODUCTS: In case of fire, flammable hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur.

VI. HEALTH HAZARD DATA

EXPOSURE LIMITS: None established for mixture.

TOXICITY DATA: Irritating to rabbits in a primary dermal irritation study. No skin sensitization was observed in guinea pigs (Buehler).

CARCINOGENICTY: NTP? No IARC Monographs? No OSHA Regulated? No

PRIMARY ROUTE(S) OF EXPOSURE: Eye contact, skin contact, inhalation.

EFFECTS OF OVEREXPOSURE:

ACUTE: Eye contact causes severe irritation. If not removed promptly, eye injury will occur which may result in permanent damage. Skin contact causes irritation. Although not present under normal conditions, high vapor concentrations are irritating to the eyes and the respiratory tract and may cause headaches, dizziness, unconsciousness and other central nervous system effects. These effects are temporary and reversible.

CHRONIC: None currently known.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Asthma, bronchitis, emphysema and any other respiratory disorders.

VII. SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS: Use local and mechanical exhaust to minimize exposure to vapors or mists.

RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS: 100 ppm total hydrocarbons, 50 ppm alcohol.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY: Not required under normal operating conditions. Respiratory protection may be needed under certain conditions where significant exposure to fumes or mists may occur. A NIOSH approved air purifying respirator equipped with NIOSH approved organic vapor cartridges is recommended. Use must comply with the OSHA standard for respiratory protection (29 CFR 1910.134) including appropriate fit testing and training.

EYE: Chemical splash goggles.

GLOVES: Impervious nitrile or butyl rubber.

VIII. FIRST AID PROCEDURES

EYE CONTACT:

If the material gets in the eyes, immediately wash the eyes with copious amounts of water, occasionally lifting the lower and upper eyelids. Continue for 15 minutes. Get medical attention immediately.

SKIN CONTACT:

If the material gets on the skin, immediately wash the area with soap and water and flush with water. If the material gets on clothing, remove the clothing and wash the affected area with soap and water. If irritation develops, get medical attention.
Wash contaminated clothing before reuse.

INGESTION:

If the material has been swallowed, do not induce vomiting. Get medical attention immediately.

INHALATION:

If dizziness, coughing, irritation or tightness in the chest is experienced, remove to fresh air. Administer oxygen if breathing is difficult. Get medical attention immediately.

IX. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED:

Evacuate area of all non-essential personnel. Remove all sources of ignition. Ventilate confined spaces. Wear gloves, goggles, apron or lab coat and respirator. Contain spill with absorbent socks to prevent sewer runoff. Absorb spill with absorbent material such as sand or earth. Do not use combustible materials such as sawdust. Using non-sparking tools, shovel into salvage container.

WASTE DISPOSAL METHOD:

Waste liquid can be incinerated or used for fuel blending. Waste products may be hazardous due to ignitability. Comply with federal, state and local regulations.

X. SPECIAL PRECAUTIONS

Store in a cool, well-ventilated area away from flammable materials and sources of heat, sparks or flame.

Use with electrically grounded equipment.

Practice good housekeeping and vigorous personal hygiene to minimize contact with material.

This product is for industrial use only.

Do not reuse container.

XI. REGULATORY COMMENTS

DOT CLASSIFICATION: Not regulated for non-bulk packaging. For bulk packaging:

Proper Shipping Name: Combustible liquid, n.o.s.
Hazard Class: Combustible liquid
Identification Number: NA 1993
Packing Group: III

TSCA STATUS: All components are on the TSCA Chemical Substance Inventory.

SARA TITLE III: This product contains no chemicals on the EPA's list of Toxic Release Chemicals under Section 313.

1990 CAA Amendment HAP's: This product contains 0.5% Naphthalene, CAS# 91-20-3.

XII. PREPARATION INFORMATION

PREPARED BY: Michael J. Evans, Enviro./Safety Coordinator

ADDRESS: 5700 Commerce Blvd.
Morristown, Tn. 37814

TELEPHONE: (423) 586-4441

DATE: August 6, 2003

SUPERSEDES: December 20, 2000

The data included herein are presented according to practices current at the time of preparation hereof, are made available solely for the consideration, investigation and verification of the original recipients hereof and do not constitute a representation or warranty for which MacDermid Printing Solutions assumes responsibility. It is the responsibility of a recipient of this data to remain currently informed on chemical hazard information, to design and update its own safety program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right to know and environmental protection.