

MATERIAL SAFETY DATA SHEET

State Chemical Division – State Industrial Products
3100 Hamilton Avenue, Cleveland, OH 44114 (216) 861-7114

State Chemical Ltd.
1745 Meyerside Dr., Unit #1, Mississauga, Ontario L5T 1C6 (905) 670-4669

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **FORMUFLEX**
Product Description: A clear gel adhesive and sealant.

24-Hour Emergency CHEMTREC Number: 800-424-9300
MSDS Number: M01047

2. COMPOSITION/INFORMATION ON INGREDIENTS

8 ounce Can:

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>Weight</u>	<u>ACGIH</u>	<u>OSHA</u>
Toluene	108-88-3	< 32%	50 ppm	100 ppm
Aromatic Hydrocarbon	64742-95-6	< 22%	NE	100 ppm
Tetrachloroethylene	127-18-4	< 11%	25 ppm	25 ppm

5 ounce Tube and 10.3 ounce Cartridge:

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>Weight</u>	<u>ACGIH</u>	<u>OSHA</u>
Toluene	108-88-3	< 62%	50 ppm	100 ppm

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Flammable. May cause eye, skin and respiratory irritation. Harmful or fatal if swallowed. Vapor harmful.

POTENTIAL HEALTH EFFECTS

Eye Contact: May cause eye irritation and corneal damage.
Skin Contact: May cause skin irritation, dermatitis and defatting.
Inhalation: May cause irritation if the respiratory tract. High concentrations may cause acute central nervous system depression characterized by headaches, dizziness, nausea and confusion.
Ingestion: Harmful or fatal if swallowed. Aspiration hazard if swallowed. May cause gastrointestinal irritation, nausea and vomiting.

4. FIRST AID MEASURES

Eye Contact: Promptly flush with large amounts of water, lifting eyelids, for at least 15 minutes. Consult a physician immediately.
Skin Contact: Promptly wash skin thoroughly with soap and water and rinse for 15 minutes. Remove contaminated clothing and launder before reuse. If irritation persists, consult a physician.
Inhalation: Remove to fresh air. Restore breathing if necessary. If irritation persists, consult a physician.
Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician immediately.

5. FIRE FIGHTING MEASURES

Flashpoint (Method): 45°F (TCC)
Lower Explosive Limit(LEL): 1.0 Upper Explosive Limit(UEL): 7.0
Autoignition Temperature: NA
Flammable Properties: Vapor may cause flash fire.
Extinguishing Media: Carbon Dioxide, dry chemical or fog.
Fire Fighting Instructions: Wear a self-contained breathing apparatus with full protective clothing. Water may be used to cool exposed containers to prevent buildup of pressure and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

6. ACCIDENTAL RELEASE MEASURES

Ventilate area. Remove all ignition sources. Use absorbent material to soak up spill and transfer to proper container. Dispose of in accordance with Federal, State and Local Regulations regarding waste disposal.

7. HANDLING AND STORAGE

Handling: This product is for industrial use only. Use with adequate ventilation. Wash thoroughly after handling. Do not take internally. Avoid contact with skin, eyes and clothing. Avoid breathing vapor. Empty containers may contain product residue. Do not cut or weld empty containers.
Storage: Keep out of reach of children. Keep containers closed when not in use. Store in a well-ventilated, cool, dry area away from heat, sparks, flames and pilot lights.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Provide sufficient mechanical ventilation to maintain exposure below TLV limit.
Personal Protective Equipment:
Respiratory: Normal room ventilation is adequate. Use a NIOSH/MHSA approved respirator if exposure limits are exceeded.
Eye: Wear approved safety glasses or goggles with unperforated sideshields.
Skin: Wear chemically impervious gloves. Wear long sleeves and long pants.
Other: An emergency eyewash station or source of clean potable water should be available in case of accidental eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Clear	Physical State:	Viscous liquid
Odor:	Hydrocarbon	Specific Gravity:	0.928 - 0.970
Solubility in Water:	None	Evaporation Rate (Butyl Acetate = 1):	< 25
Boiling Point:	232°F	Melting Point:	NA
Total VOC Content:	> 250 g/l and < 475 g/l	Product Weight:	7.74 - 8.10 lbs/gal
Vapor Density (air = 1):	~4	Vapor Pressure:	~20 mm Hg @20°C

10. STABILITY AND REACTIVITY

Stability: Stable.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Heat, sparks and open flames.
Incompatibility: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, various Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

IARC / NTP / OSHA: This product contains no ingredient at 0.1% or greater that is listed as a human carcinogen.

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>LD50</u>	<u>LC50</u>
Toluene	108-88-3	5000 mg/kg (oral rat)	5320 ppm/8 hr (mouse)
Aromatic Hydrocarbon	64742-95-6	NE	NE
Tetrachloroethylene	127-18-4	2629 mg/kg (oral rat)	5040 ppm /8 hr (rat)

12. ECOLOGICAL INFORMATION

NA

13. DISPOSAL CONSIDERATIONS

Do not reuse empty containers. Follow all Federal, State and Local Regulations regarding waste disposal. Product as formulated is a D001 unspecified ignitable waste.

14. TRANSPORT INFORMATION

DOT Shipping Data: Consumer Commodity ORM-D.
Canadian TDG: Shipped in accordance with 49 CFR as part of a transborder shipment authorized under Section 5.2 (1) of the Canadian Transportation of Dangerous Goods.

For International Shipments by Air: Flammable Liquids, N.O.S., (Toluene), 3, UN1993, II
For International Shipments by Vessel: Flammable Liquids, N.O.S., (Toluene), 3, UN1993, II, Limited Quantity

15. REGULATORY INFORMATION

TSCA: All ingredients in this product are listed or exempt from listing on the TSCA Chemical Inventory.
CEPA: All ingredients in this product are listed or exempt from listing on the Canadian DSL/NDSL.
Proposition 65: This product may contain trace amounts of the following chemicals that are known to the state of California to cause cancer, birth defects or other reproductive harm:
Toluene 108-88-3 < 62%
Tetrachloroethylene 127-18-4 < 11%
Benzene 71-43-2 < 16 ppm

SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR372):
Toluene 108-88-3 < 62%
Tetrachloroethylene 127-18-4 < 11%

HMIS Rating: HEALTH = 2 FLAMMABILITY = 3 REACTIVITY = 0 PPE = B

WHMIS Rating: Class B, Division 2; Class D, Division 2B

16. OTHER INFORMATION

NA = Not Available or Not Applicable
NE = Not Established

Read and follow all label directions and precautions before using the product. This product is intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF THE REACH OF CHILDREN. While we believe that the data contained herein is factual and the opinions expressed are those of qualified experts, the data is not to be taken as a warranty or representation for which the company assumes legal responsibility. The data is offered solely for your consideration, investigation, and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, State, and Local Laws and regulations.

HEALTH AND SAFETY INFORMATION: (216) 861-7114

Completed On: June 2006 Replaces: June 2003 Completed By: Regulatory Affairs Specialist