

Date Prepared: 04/15/02

Supersedes: 08/01/01

Product Name: Adhesive Lubricant 105 - D.S. Brown Part #1516

MATERIAL SAFETY DATA SHEET**1. Chemical Product and Company Information**

Product Name: Adhesive Lubricant 105 - D.S. Brown Part #1516

D.S. Brown
300 East Cherry Street
North Baltimore, OH 45872
419-257-3561

Transportation Emergency Contact:
CHEMTREC 800/424-9300

2. Composition / Information on Ingredients

Hazardous Components	CAS#	Exposure Limits			% by Wt
		OSHA(PEL/TWA)	ACGIH (TLV/TWA)	OTHER	
Toluene	108-88-3	100 ppm	100 ppm	—	66%
		150 ppm (STEL)	150 ppm (STEL)	—	
Xylene (mixed isomers)	1330-20-7	100 ppm	100 ppm	—	6%
		150 ppm (STEL)	150 ppm (STEL)	—	
Ethyl Benzene	100-41-4	100 ppm	100 ppm	—	1%
		125 ppm (STEL)	125 ppm (STEL)	—	

3. Hazards Identification**WARNING!****FLAMMABLE LIQUID**

Causes irritation of eyes, skin and respiratory tract

Intentional abuse of Toluene vapors have been linked to damage of brain, liver, kidney, central nervous system and death

Harmful if swallowed

Potential Health Hazards - Acute**Eye:** Causes eye irritation. Direct contact with the liquid or exposure to its vapors may cause burning, tearing and redness.**Skin:** May cause irritation. Prolonged or repeated exposure may cause redness and burning, drying and cracking of the skin and dermatitis. Persons with preexisting skin disorders may be more susceptible to the effects of this material.**Inhalation:** Excessive concentration of vapors or mists can cause irritation of the nose and throat and signs of nervous system depression. Persons with impaired lung function or asthma like conditions may experience additional breathing difficulties due to the irritating properties of this material.**Ingestion:** Liquid is moderately toxic and may be harmful if swallowed; may produce CNS depression. May result in vomiting. Aspiration of vomitus into the lungs must be avoided as even small quantities may result in aspiration pneumonia.**Potential Health Effects - Chronic**

Intentional abuse, misuse or other massive exposure may cause multiple organ damage and/or death. See Section 11 for supplemental information.

Carcinogenicity:	NTP	IARC Monographs	OSHA Regulated
	NO	NO	NO

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4. First Aid Measures

Eye: Immediately flush with plenty of clean water.

Skin: Remove contaminated clothing. Clean affected area(s) thoroughly with soap and water.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Ingestion: Seek medical attention! Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

SEEK MEDICAL ATTENTION IF SYMPTOMS PERSIST.

5. Fire Fighting Measures

Flash Point (method used): 40°F (TCC)

Flammable Limits (% volume in air): Lower = 1 Upper = 7

Auto Ignition Temperature: No data available

Extinguishing Media: Extinguish with water fog, dry chemical, CO2 or foam.

Hazard Combustion Products: Carbon monoxide, hydrogen chloride, carbon dioxide, sulfur dioxide.

Fire Fighting Instructions: Flammable. Do not enter confined fire space without full bunker gear including a positive pressure, NIOSH approved, self-contained breathing apparatus. Cool containers exposed to fire with water.

6. Accidental Release Measures

Spill: Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Avoid personal contact. If spill is indoors, ventilate area. Keep out of drains, sewers or waterways. Take up with absorbent material, place into non-leak containers and seal tightly for proper disposal.

7. Handling and Storage

Handling: Flammable. Static electricity may create a fire hazard. Always ground equipment and transfer containers. Keep liquid away from heat, sparks and flame. "Empty" containers can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize drums to empty them. Avoid inhalation of vapors and personal contact with product. Use with adequate ventilation.

Storage: Store containers tightly closed with adequate ventilation in a cool, dry area.

8. Exposure Controls / Personal Protection

Exposure Controls: Mechanical and local exhaust should be used for indoor use.

Personal Protection: NIOSH approved organic solvent respirator, impervious gloves, chemical splash goggles, and protective clothing to minimize skin contact.

9. Physical and Chemical Properties

Appearance: Translucent amber liquid of high viscosity

Odor: Toluene aromatic solvent odor

Boiling Point: 231°F

Melting Point: Not applicable

Vapor Pressure (mm/Hg): 22 @ 68°F

Vapor Density (Air = 1): 3.2

Solubility in Water: Negligible (<5%)

Specific Gravity (H2O = 1): 0.96

Evaporation Rate (n-Butyl Acetate = 1): 0.6

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10. Stability and Reactivity

Chemical Stability: Stable

Conditions to Avoid: Heat, sparks and flame

Incompatibility (materials to avoid): Strong oxidizing agents

Hazardous Decomposition or By-products: Thermal decomposition may yield carbon monoxide, hydrogen chloride, carbon dioxide and sulfur dioxide.

Hazardous Polymerization: Will not occur

11. Toxicological Information

Toluene and Xylene in high concentrations have resulted in hearing loss in laboratory rats. Intentional abuse of toluene vapors has been linked to damage of brain, liver, kidney and death in addition to cardiac effects in humans.

Components	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Toluene	5.0 g/kg	14.0 g/kg	8000 ppm/4 hours
Xylene	4.3 g/kg	4.0 g/kg	6700 ppm/4 hours

12. Ecological Information

Possible land, air and water pollutant. No exact data available.

13. Disposal Considerations

Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area.
 Under RCRA 40 CFR 261 this material is hazardous waste number D001.

14. Transportation Information

For U S National, International and Air Shipments:

Shipping Description: Adhesives, 3, UN1133, II

Emergency Response Guide Number: 128

Hazard Class: Flammable Liquid

15. Regulatory Information

OSHA: This material is hazardous by definition of Hazardous Communications Standard (29 CFR 1910.1200)

CERCLA Reportable Quantity: 1515 lbs (based on Toluene)

SARA Title III:

Section 311/312 hazard categories: acute health, delayed health, fire

Section 313 reportable ingredients:

Components	CAS#	Maximum %
Toluene	108-88-3	66 %
Xylene	1330-20-7	6 %
Ethyl Benzene	100-41-4	1 %

16. Other Information

MSDS Status: Revised 4/15/02

Industrial Abbreviation Legend on page 4 of this MSDS.

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Industrial Abbreviation Legend

ACGIH	American Conference of Governmental Industrial Hygienists	mg/m ³	milligrams per cubic meter
CAA	Clean Air Act (EPA)	NIOSH	National Institute for Occupational Safety and Health
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act of 1980 (Superfund) (EPA)	NTP	National Toxicology Program
CNS	Central Nervous System	OSHA	Occupational Safety and Health Administration
CWA	Clean Water Act (EPA)	PEL	Permissible Exposure Limit
DOT	Department of Transportation	ppm	parts per million
EPA	Environmental Protection Agency	RCRA	Resource Conservation and Recovery Act (EPA)
g/kg	grams per kilogram	SARA	EPA's Superfund Amendment and Reauthorization Act (EPA)
IARC	Internal Agency for Research on Cancer	STEL	Short-Term Exposure Limit, ACGIH terminology
LC50	Lethal Concentration in which 50% of the test animals are expected to die	TLV	Threshold Limit Value
LD50	Lethal Dose in which 50% of the test animals are expected to die	TWA	Time-Weighted Average

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