

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: D.L.M. Adhesive 22-68
PRODUCT NUMBER: 22-68



MON-ECO INDUSTRIES, INCORPORATED

<p>TRADE NAME: D.L.M. Adhesive. GENERAL USE: Adhesive CHEMICAL FAMILY: Water Based Adhesive MANUFACTURER Mon-Eco Industries, Inc. TELEPHONE NUMBER (General Inquiries) 732-257-7942 ADDRESS (NUMBER, STREET, P.O. BOX) 5 Joanna Ct (CITY, STATE AND ZIP CODE) COUNTRY East Brunswick, NJ 08816 USA</p>	<p>PRODUCT DESCRIPTION: Thick liquid with Mild Odor.</p> <p>EFFECTIVE DATE: 01 February 2011 DATE OF EXPIRATION: 31 January 2014 SUPERSEDES DATE: 03 April 2008</p>				
CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBERS					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">1-800-255-3924</td> <td style="width: 33%; text-align: center;">813-248-0585</td> </tr> <tr> <td style="text-align: center;">North America (Toll Free)</td> <td style="text-align: center;">International and Local Calls</td> </tr> </table>	1-800-255-3924	813-248-0585	North America (Toll Free)	International and Local Calls
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SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Warning! Possible risk of impaired fertility. May cause harm to the unborn child. May cause eye, skin, and respiratory tract irritation. Harmful to aquatic organisms and environments. Target Organs: Reproductive system.

US (DOT) None	CANADA (WHMIS) SYMBOLS 	EUROPEAN 	(GHS) HAZARD SYMBOLS
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<p>0 = INSIGNIFICANT, 1 = SLIGHT, 2 = MODERATE 3 = HIGH, 4 = EXTREME * - CHRONIC HEALTH HAZARD</p>	HEALTH:	2
	FLAMMABILITY:	0
	PHYSICAL HAZARD:	0

REQUIRED PERSONAL PROTECTIVE EQUIPMENT:

HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER: **B**

Safety Glasses and Gloves should be worn.

RISK PHRASES

R 50: Very toxic to aquatic organisms.
R 61: May cause harm to the unborn child.
R 62: Possible risk of impaired fertility.

SAFETY PHRASES

S 2: Keep out of the reach of children.
S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 53: Avoid exposure - obtain special instructions before use.
S 61: Avoid release to the environment. Refer to special instructions/safety data sheets.

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SECTION 2 - HAZARDS IDENTIFICATION (Continued)

POTENTIAL HEALTH EFFECTS

ACUTE EXPOSURE EFFECTS

INHALATION:

Inhalation of a mist of this material may cause respiratory tract irritation. Material has a low vapor pressure at room temperature, so exposure to vapor is not likely. May be harmful if inhaled. May cause central nervous system effects.

SKIN:

May cause skin irritation. Causes redness and pain. May be harmful if absorbed through the skin.

EYES:

May cause eye irritation. Causes redness and pain.

INGESTION:

Inhalation of a mist of this material may cause respiratory tract irritation. Material has a low vapor pressure at room temperature, so exposure to vapor is not likely. May be harmful if inhaled. May cause central nervous system effects.

CHRONIC EXPOSURE EFFECTS

May cause adverse reproductive effects. Possible risk of harm to the unborn child.

CARCINOGENICITY:

NTP? NO	IARC MONOGRAPHS? NO	OSHA REGULATED? NO
CALIFORNIA, Prop.65? YES		ESIS NOTATION? NO

SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 2)
Dibutyl Phthalate (a)(b)	1-5%	84-74-2	201-557-4	T,N	R50, R61, R62

NOTES: 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), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directives. Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 91/155/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directives.
(a) - EU: Substance of Very High Concern (SVHC); EU Reproduction Category 2. (b) - EU Reproduction Category 3.

SECTION 4 - FIRST AID MEASURES

INHALATION:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

EYES:

Remove contact lenses if present. Immediately flush eyes with plenty of potable water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

SKIN:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

INGESTION:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Seek medical attention immediately.

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SECTION 5 - FIRE FIGHTING MEASURES

DATA RELATED TO FIRE:

FLASH POINT: No Flash to boiling point TCC. **AUTO-IGNITION TEMPERATURE:** NA

FLAMMABLE/EXPLOSIVE LIMITS: **LOWER:** NA **UPPER:** NA

SENSITIVITY TO MECHANICAL IMPACT/ STATIC DISCHARGE: Not sensitive.

GENERAL HAZARDS:

May combust under fire conditions. Ignited product may produce irritating or toxic fumes or oxides of carbon or nitrogen. Wear self contained breathing apparatus.

SUITABLE EXTINGUISHING MEDIA:

Water Spray, Foam, CO2, Dry Chemical - any extinguishing media is acceptable.

UNSUITABLE EXTINGUISHING MEDIA:

None.

FIRE FIGHTING PROCEDURES:

Firefighters should wear a self contained breathing apparatus and full chemical firefighting gear when fighting fires involving this product. Water may be used to cool off fire-exposed containers to prevent rupture.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Heated containers may rupture and release contents.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon and nitrogen, small amounts of hydrogen chloride.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Cleanup personnel should wear Personal Protective Equipment. Wipe and clean up spill. Place in sealed container and remove. Dispose in a licensed and permitted facility, preferably by incineration with exhaust scrubbers being used. Avoid contamination of waterways, sewers etc with this product.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Use with adequate ventilation to avoid prolonged or repeated breathing of vapors. Some persons may become upset by the odor. Avoid prolonged or repeated contact with skin. Irritation could result. Wash with soap and water. Avoid contact with eyes. If splashed in eyes, flush with clean water to remove. If irritation results, consult a physician. Do not take internally. If ingested, contact a physician. Keep out of reach of children. Store in a cool well ventilated area away from incompatible materials. Do Not Freeze!

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	CAS #	ACGIH Exposure Limits (mg/m ³ unless otherwise noted)	OSHA Exposure Limits (mg/m ³ unless otherwise noted)
Dibutyl Phthalate	84-74-2	5	5

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

PROTECTIVE GLOVES:

Wear appropriate protective gloves to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure.

EYE PROTECTION:

Wear protective safety glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Not required.

ENGINEERING CONTROLS:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

WORK / HYGIENIC PRACTICES:

Wash up with soap and water after using this product and before eating, drinking, smoking or using the restroom.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Thick liquid - Mild Odor	VAPOR PRESSURE 17 mm Hg
ODOR THRESHOLD NE	SPECIFIC GRAVITY (WATER = 1) 1.06 mg/cm ³
FREEZING / MELTING POINT NE	BOILING POINT 212°F
SOLUBILITY IN WATER Dilutable when wet.	COEFFICIENT OF WATER / OIL DISTRIBUTION NE
pH NE	SOLUBILITY IN ORGANIC SOLVENTS Variable, depends on the solvent.
FLASH POINT None to boiling point.	VISCOSITY NE but thicker than water.
FLAMMABLE LIMITS LEL: None UEL: None	VAPOR DENSITY (AIR = 1) >1
AUTOIGNITION TEMPERATURE	EVAPORATION RATE (WATER = 1) =1

VOLATILE ORGANIC COMPOUND (VOC) INFORMATION

0.06 lbs/gal 8g/liter.

NOTES:

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable in normal use.	CONDITIONS TO AVOID: Excessive heat, peroxides other incompatible substances. Keep from freezing.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Burning may produce irritating or toxic fumes of Hydrogen Chloride and Oxides of Carbon and Nitrogen.	
HAZARDOUS POLYMERIZATION: Will not occur.	CONDITIONS TO AVOID: None related to polymerization.

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SECTION 11 - TOXICOLOGICAL INFORMATION

Complete Product

Oral LD₅₀	Product is likely to be a gastro-intestinal irritant.
Dermal LD₅₀	Not known - product may be slightly irritating by contact with skin.
Inhalation LC₅₀	Not known - product may be a mild irritant to the respiratory tract.
Irritation / Sensitization	Chemical and mechanical irritant to eyes; possible irritant to skin and respiratory tract.
Carcinogenicity	Not Known
Mutagenicity	Not Known
Reproductive Toxicity	Possible risk of impaired fertility. Target Organs: Reproductive system.
Teratogenicity	May cause harm to the unborn child.

Product Components

Component	CAS #	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)
Dibutyl Phthalate	84-74-2	7499 mg/kg	4250 mg/m3

SECTION 12 - ECOLOGICAL INFORMATION

Very toxic to aquatic organisms. May cause long-term damage in the environment.
 Dibutyl Phthalate: Fish: Bluegill/Sunfish: 1.2mg/L; 96H
 Fish: Fathead Minnow: 1.3mg/L; 96H.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
 Dispose of in a manner consistent with federal, state, and local regulations. Do not dispose of this product into watercourses, sewers etc.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not regulated	
DOT HAZARD CLASS / Pack Group: Not regulated REFERENCE: 49CFR, IATA, IMDG/IMO UN / NA IDENTIFICATION NUMBER: NA HAZARD SYMBOLS: None	IATA HAZARD CLASS / Pack Group: Not regulated IMDG HAZARD CLASS: None RID/ADR Dangerous Goods Code: None Hazard Identification Number (HIN): NA

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): **Ingredients are listed on the TSCA inventory.**

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):

Acute Health:	NO	Chronic Health:	YES
Fire:	NO	Sudden Release of Pressure:	NO
Reactive:	NO		

CERCLA (USA - Comprehensive Response Compensation and Liability Act): **CAS# 84-74-2: 10 lb final RQ; 4.54 kg final RQ.**

Clean Water Act: **CAS# 84-74-2 is listed as a Hazardous Substance under the CWA.**
CAS# 84-74-2 is listed as a Priority Pollutant under the Clean Water Act. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

Section 313: **This material contains Dibutyl phthalate (CAS# 84-74-2, 1-5%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.**

State Right to Know: **CAS# 84-74-2 (Dibutyl Phthalate) can be found on the following state right to know lists: CA, MA, MN, NJ, PA**

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: **This material may contain chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5).**

IDL (Canadian Ingredient Disclosure List): **CAS# 84-74-2 is listed on Canada's Ingredient Disclosure List.**

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): **Listed on DSL.**

EINECS (European Inventory of Existing Commercial Chemical Substances): **Referenced.**

WGK Water Quality Index: **2**



SECTION 16 - OTHER INFORMATION

Legend:

- ACGIH American Congress of Government Industrial Hygienists
- CAS Chemical Abstracts Service
- EINECS European Inventory of Existing Commercial Chemical Substances
- HMIS Hazardous Materials Identification System
- IARC International Agency for Research on Cancer
- NA Not Available ND Not Determined
- NE Not Established NR Not Reported
- NIOSH National Institute for Occupational Safety and Health
- NTP National Toxicology Program
- OSHA Occupational Safety and Health Administration

REVISION SUMMARY: Revised 02/01/2011 supersedes 04/03/2008 issue. ---JTV--

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.