

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Mono-Tack Spray Adhesive
PRODUCT NUMBER: 22-65



MON-ECO INDUSTRIES, INCORPORATED

TRADE NAME: Mono-Tack Spray Adhesive.
GENERAL USE: Adhesive
CHEMICAL FAMILY: Water Based Adhesive

PRODUCT DESCRIPTION:
 Thick White Liquid with Mild Odor.

MANUFACTURER

Mon-Eco Industries, Inc.

EFFECTIVE DATE: 01 February 2011

TELEPHONE NUMBER (General Inquiries)
 732-257-7942

DATE OF EXPIRATION: 31 January 2014

SUPERSEDES DATE: 03 April 2008

ADDRESS (NUMBER, STREET, P.O. BOX)
 5 Joanna Ct

CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBERS

(CITY, STATE AND ZIP CODE) COUNTRY
 East Brunswick, NJ 08816 USA



1-800-255-3924
 North America
 (Toll Free)

813-248-0585
 International
 and Local Calls

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 environments. Target Organs: Reproductive system.

US (DOT)

CANADA (WHMIS) SYMBOLS EUROPEAN

(GHS) HAZARD SYMBOLS

None



0 = INSIGNIFICANT, 1 = SLIGHT, 2 = MODERATE
 3 = HIGH, 4 = EXTREME
 * - CHRONIC HEALTH HAZARD

HEALTH:	2
FLAMMABILITY:	0
PHYSICAL HAZARD:	0

REQUIRED PERSONAL PROTECTIVE EQUIPMENT:

HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER:

H



Safety Glasses and Gloves
 apron and vapor respirator
 should be worn.

RISK PHRASES

- R 38: Irritating to skin.
- R 48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R 50/53: Very toxic to aquatic organisms.
- R 61: May cause harm to the unborn child.
- R 62: Possible risk of impaired fertility.
- R 63: Possible risk of harm to the unborn child.
- R 65: Harmful: may cause lung damage if swallowed.
- R 67: Vapors may cause drowsiness and dizziness.

SAFETY PHRASES

- S 2: Keep out of the reach of children.
- S 9: Keep container in a well-ventilated place.
- 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.
- S 62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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PRODUCT NAME: Mono-Tack Spray Adhesive
PRODUCT NUMBER: 22-65

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)
Toluene	1-5%	108-88-3	203-625-9	F,Xn	R11, 38, 48/20, 63, 65, 67
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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PRODUCT NUMBER: 22-65

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)
Toluene	108-88-3	50 ppm TWA (skin)	200 ppm TWA, 300 ppm Ceiling, 500 ppm 10 min peak 50 ppm / 192 mg/m ³ OEL / 100 ppm / 384 mg/m ³ STEL (skin)(Europe)
Dibutyl Phthalate	84-74-2	5	5

MATERIAL SAFETY DATA SHEET

PRODUCT NAME:	Mono-Tack Spray Adhesive
PRODUCT NUMBER:	22-65

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)

PERSONAL PROTECTION

RESPIRATORY PROTECTION:
A vapor respirator that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be worn 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:
A protective apron is required to minimize skin contact with the solvents in this product.

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 white liquid - Mild Odor	VAPOR PRESSURE 17 mm Hg.
ODOR THRESHOLD None.	SPECIFIC GRAVITY (WATER = 1) 1.11 mg/ml.
FREEZING / MELTING POINT NE	BOILING POINT 212°F
SOLUBILITY IN WATER Dilutable	COEFFICIENT OF WATER / OIL DISTRIBUTION NE
pH NE	SOLUBILITY IN ORGANIC SOLVENTS NE
FLASH POINT None to Boiling Point.	VISCOSITY NE
FLAMMABLE LIMITS LEL: None UEL: None	VAPOR DENSITY (AIR = 1) >1
AUTOIGNITION TEMPERATURE	EVAPORATION RATE (WATER = 1) 1

VOLATILE ORGANIC COMPOUND (VOC) INFORMATION
0.52 lbs/gal or 61 grams/liter.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable in normal use.	CONDITIONS TO AVOID: Excessive heat, peroxides other incompatible substances. Keep from freezing.
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INCOMPATIBILITY (MATERIALS TO AVOID):
Strong oxidizers.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Burning may produce irritating or toxic fumes 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. Known reproductive toxicants (toluene and dibutyl phthalate).
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)
Toluene	108-88-3	636 mg/kg	49 g/m ³ / 4 Hours
Dibutyl Phthalate	84-74-2	7499 mg/kg	4250 mg/m ³

SECTION 12 - ECOLOGICAL INFORMATION

Product should be considered as harmful to aquatic environments; do not discard into bodies of water. 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. If this material becomes a waste, it would be a hazardous waste by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with all local, state, and federal regulations. User is responsible for compliance with all laws and regulations. US EPA Waste Numbers : D001, U220

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not regulated	
DOT HAZARD CLASS / Pack Group: Not regulated	IATA HAZARD CLASS / Pack Group: Not regulated
REFERENCE: 49CFR, IATA, IMDG/IMO	IMDG HAZARD CLASS: None
UN / NA IDENTIFICATION NUMBER: NA	RID/ADR Dangerous Goods Code: None
HAZARD SYMBOLS: 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.**

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

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

CERCLA (USA - Comprehensive Response Compensation and Liability Act): **4000 lb / 181 kg RQ for product.**

State Right to Know: **Toluene is on the right to know lists of CA, MA, MN, NJ, and 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 and CAS#108-88-3 are listed on Canada's Ingredient**

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

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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.