

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 27, 2018

Revision: March 27, 2018

## 1 Identification

- **Product identifier**
- **Trade name:** D.L.M. Adhesive
- **Article number:** 22-68
- **Recommended use and restriction on use**
- **Recommended use:** Adhesive.
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Mon-Eco Industries, Inc.  
5 Joanna Ct.  
East Brunswick, NJ 08816  
Phone: 732-257-7942
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)



MON-ECO INDUSTRIES, INCORPORATED

## 2 Hazard(s) identification

- **Classification of the substance or mixture**

Eye Irrit. 2A	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Carc. 2	H351	Suspected of causing cancer. Route of exposure: Inhalation.
Repr. 1	H360-H362	May damage fertility or the unborn child. May cause harm to breast-fed children.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS07 GHS08

- **Signal word:** Danger

- **Hazard statements:**

H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer. Route of exposure: Inhalation.  
 H360-H362 May damage fertility or the unborn child. May cause harm to breast-fed children.

- **Precautionary statements:**

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe mist/vapors/spray.  
 P263 Avoid contact during pregnancy/while nursing.  
 P264 Wash thoroughly after handling.

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P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection.
P302+P352	If on skin: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

61788-76-9	Alkanes, chloro Lact., H362	5-15%
84-74-2	dibutyl phthalate ⚠ Repr. 1B, H360	2.5-10%
9036-19-5	polyethylene glycol octylphenyl ether ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302	<2.5%
9016-45-9	nonylphenol, ethoxylated ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	<2.5%
1309-64-4	antimony trioxide ⚠ Carc. 2, H351	<1%
35691-65-7	1,2-Dibromo-2,4-dicyanobutane ⚠ Acute Tox. 3, H331 ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	<1%

· **Additional information:**

For the wording of the listed Hazard Statements, refer to section 16.

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

## 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

· **After skin contact:**

Immediately remove any clothing soiled by the product.

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Immediately wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

· **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· **Most important symptoms and effects, both acute and delayed:**

Headache

Dizziness

Causes eye irritation.

Slight irritant effect on skin and mucous membranes.

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

· **Danger:**

May cause cancer. Route of exposure: Inhalation.

Suspected of damaging fertility or the unborn child.

May cause harm to breast-fed children.

· **Indication of any immediate medical attention and special treatment needed:**

Contains 1,2-Dibromo-2,4-dicyanobutane. May produce an allergic reaction.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

## 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.

· **For safety reasons unsuitable extinguishing agents:** None.

· **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

## 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

· **Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· **Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

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· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

· **Handling**

· **Precautions for safe handling:**

Avoid contact with the eyes and skin.

Avoid breathing mist, vapors, or spray.

Handle with care.

Keep out of reach of children.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

· **Information about protection against explosions and fires:**

Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Requirements to be met by storerooms and receptacles:**

Store in cool, dry conditions in well sealed receptacles.

Do not allow product to freeze.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Protect from humidity and water.

· **Specific end use(s)** No relevant information available.

## 8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

**84-74-2 dibutyl phthalate**

PEL (USA) Long-term value: 5 mg/m<sup>3</sup>

REL (USA) Long-term value: 5 mg/m<sup>3</sup>

TLV (USA) Long-term value: 5 mg/m<sup>3</sup>

EL (Canada) Long-term value: 5 mg/m<sup>3</sup>

R

EV (Canada) Long-term value: 5 mg/m<sup>3</sup>

LMPE (Mexico) Long-term value: 5 mg/m<sup>3</sup>

**1309-64-4 antimony trioxide**

PEL (USA) Long-term value: 0.5 mg/m<sup>3</sup>

REL (USA) Long-term value: 0.5 mg/m<sup>3</sup>  
as Sb

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TLV (USA)	Long-term value: NIC-0.03* 0.5** mg/m <sup>3</sup> *respirable, NIC-A3, (L);**as Sb
EL (Canada)	ACGIH A2, IARC 2B
LMPE (Mexico)	Long-term value: 0.5 mg/m <sup>3</sup> como Sb

· **Exposure controls**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Pregnant women should strictly avoid inhalation or skin contact.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Engineering controls:** No relevant information available.

· **Breathing equipment:**

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**



Safety glasses

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment**

No relevant information available.

· **Risk management measures** No relevant information available.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **Appearance:**

· **Form:** Liquid

· **Color:** Gray

· **Odor:** Mild

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Melting point/Melting range:** Not determined.

· **Boiling point/Boiling range:** Not determined.

· **Flash point:** Not applicable.

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· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidizing properties:</b>	Non-oxidizing.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	
<b>Relative density:</b>	1.08
<b>Vapor density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**  
Toxic fumes may be released if heated above the decomposition point.  
Reacts with strong acids and oxidizing agents.
- **Conditions to avoid**  
Excessive heat.  
Moisture.
- **Incompatible materials**  
Oxidizers  
Strong acids
- **Hazardous decomposition products**  
  
Under fire conditions only:  
Carbon monoxide and carbon dioxide  
Hydrogen chloride (HCl)

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## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

### · LD/LC50 values that are relevant for classification:

#### 84-74-2 dibutyl phthalate

Oral	LD50	8000 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

#### 9002-93-1 1-(4-nonylphenyl)-1,4,7,10,13,16,19,22,25-nonaoxaheptacosan-27-ol

Oral	LD50	1800 mg/kg (rat)
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#### 9016-45-9 nonylphenol, ethoxylated

Oral	LD50	4290 mg/kg (mouse)
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#### 35691-65-7 1,2-Dibromo-2,4-dicyanobutane

Oral	LD50	515 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4h	5.09 mg/l (rat)

- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.

### · IARC (International Agency for Research on Cancer):

1309-64-4	antimony trioxide	2B
1333-86-4	carbon black	2B

### · NTP (National Toxicology Program):

Present in trace quantities.

139-13-9	nitrilotriacetic acid	R
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### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

### · Probable route(s) of exposure:

Ingestion.  
Inhalation.  
Eye contact.  
Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Suspected of causing cancer. Route of exposure: Inhalation.
- **Reproductive toxicity:**  
May damage fertility or the unborn child.  
May cause harm to breast-fed children.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## 12 Ecological information

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- **Toxicity**

- **Aquatic toxicity**

Toxic to aquatic life with long lasting effects.

<b>9002-93-1 1-(4-nonylphenyl)-1,4,7,10,13,16,19,22,25-nonaoxaheptacosan-27-ol</b>	
EC50	26 mg/kg (daphnia)
LC50	9.6 mg/l (pimephales promelas)

<b>9036-19-5 polyethylene glycol octylphenyl ether</b>	
EC50	4.8-8.9 mg/l (pimephales promelas) (static test, 96H)

<b>9016-45-9 nonylphenol, ethoxylated</b>	
LC50	1.821 mg/l (daphnia) (48 h)

- **Persistence and degradability** No relevant information available.

- **Bioaccumulative potential:** No relevant information available.

- **Mobility in soil:** No relevant information available.

- **Additional ecological information**

- **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packagings**

- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**

- DOT, ADR, IMDG, IATA

UN3082

- **UN proper shipping name**

- DOT

Environmentally hazardous substances, liquid, n.o.s.  
(Alkanes, chloro, dibutyl phthalate)

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· <b>ADR</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkanes, chloro, dibutyl phthalate)
· <b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkanes, chloro, dibutyl phthalate), MARINE POLLUTANT
· <b>IATA</b>	Environmentally hazardous substance, liquid, n.o.s. (Alkanes, chloro, dibutyl phthalate)
· <b>Transport hazard class(es)</b>	
· <b>DOT, IMDG, IATA</b>	
	
· <b>Class</b>	9 Miscellaneous dangerous substances and articles
· <b>Label</b>	9
· <b>ADR</b>	
	
· <b>Class</b>	9 (M6) Miscellaneous dangerous substances and articles
· <b>Label</b>	9
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	III
· <b>Environmental hazards</b>	Product contains environmentally hazardous substances: Alkanes, chloro, dibutyl phthalate
· <b>Marine pollutant:</b>	Yes (DOT) Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles
· <b>Danger code (Kemler):</b>	90
· <b>EMS Number:</b>	F-A,S-F
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not regulated when carried in single or combination packaging containing a net quantity of 5 L or less for liquids or 5 kg or less for solids per the following: DOT: 171.4(c)(2) ADR: SP 375 IMDG: 2.10.2.7 IATA: special provision A197
· <b>DOT</b>	Labeling as a Marine Pollutant is only required for bulk single package shipments. Bulk packaging consists of

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a maximum capacity of greater than 450 L (119 gallons) for a liquid and a maximum net mass greater than 400 kg (882 pounds) for a solid. (See 171.4(c))

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

### · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

### · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

### · Section 313 (Specific toxic chemical listings):

84-74-2 dibutyl phthalate

### · TSCA (Toxic Substances Control Act)

All ingredients are listed.

### · Proposition 65 (California)

#### · Chemicals known to cause cancer:

1309-64-4 antimony trioxide

1333-86-4 carbon black

139-13-9 nitrotriacetic acid

#### · Chemicals known to cause reproductive toxicity for females:

84-74-2 dibutyl phthalate

#### · Chemicals known to cause reproductive toxicity for males:

84-74-2 dibutyl phthalate

#### · Chemicals known to cause developmental toxicity:

84-74-2 dibutyl phthalate

### · EPA (Environmental Protection Agency):

84-74-2 dibutyl phthalate

D

### · IARC (International Agency for Research on Cancer):

1309-64-4 antimony trioxide

2B

1333-86-4 carbon black

2B

139-13-9 nitrotriacetic acid

2B

### · NIOSH-Ca (National Institute for Occupational Safety and Health):

1333-86-4 carbon black

### · Canadian Domestic Substances List (DSL):

All ingredients are listed.

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## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** March 27, 2018 / -

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Lact.: Reproductive toxicity – effects on or via lactation

Repr. 1: Reproductive toxicity – Category 1

Repr. 1B: Reproductive toxicity – Category 1B

· **Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))

Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do))

Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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