



Revision date: 08/02/2016 Date of issue: 08/02/2016 Version: 1.0

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER 1.1.

: ZL-67 Product name Product code : Not available

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST 1.2.

Use of the substance/mixture : Non-Destructive Testing.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer Distributor

Magnaflux 155 Harlem Ave. Glenview, IL 60025 - USA T: 847-657-5300

1.4. **EMERGENCY TELEPHONE NUMBER**

: CHEMTREC 800-424-9300 Emergency number

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS classification

Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation)

Skin Irrit. 2 Eye Dam. 1

LABEL ELEMENTS 2.2.

GHS labelling

Hazard pictograms (GHS)





GHS05 : Danger

Signal word (GHS)

Hazard statements (GHS) Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes serious eye damage.

Precautionary statements (GHS)

Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/ spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. **OTHER HAZARDS**

No additional information available

UNKNOWN ACUTE TOXICITY (GHS)

28% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity 70% of the mixture consists of ingredient(s) of unknown acute dermal toxicity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE 3.1.

Not applicable

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3.2. **MIXTURE**

Name	Product identifier	%
Alcohols, C12-14-secondary, ethoxylated	(CAS No) 84133-50-6	66.46
Alcohols, C6-12, ethoxylated propoxylated or Alcohols, C6-10, ethoxylated propoxylated	(CAS No) 68937-66-6 or (CAS No) 68987-81-5	25.38
Dimethyl adipate	(CAS No) 627-93-0	2.22
7-(Diethylamino)-4-methyl-2-benzopyrone	(CAS No) 91-44-1	1.93

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID WI	EASURES
First-aid measures after inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
First-aid measures after ingestion	: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you

4.2. MOST IMPORTANT SYMPTOMS AND	EFFECTS, BOTH ACUTE AND DELAYED
Symptoms/injuries after inhalation	: Harmful if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Harmful in contact with skin. Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard.
Symptoms/injuries after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/injuries after ingestion	: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

feel unwell.

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA 5.1.

Suitable extinguishing media : Water fog, foam, dry chemical powder, carbon dioxide.

Unsuitable extinguishing media : Do not use water jet.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon, nitrogen oxides, organic compounds, hazardous gases, toxic fumes.

ADVICE FOR FIREFIGHTERS 5.3.

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Move containers away from the fire area if this can be done without risk.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES 6.1.

General measures Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For containment : Dike and contain spill. Stop leak if safe to do so. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to

enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.3. REFERENCE TO OTHER SECTIONS

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

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SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. Hygiene measures

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

: Keep out of the reach of children. Store tightly closed in a dry, cool and well-ventilated place. Storage conditions

7.3. **SPECIFIC END USE(S)**

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL	DL PARAMETERS	
Alcohols, C12-14-	4-secondary, ethoxylated (84133-50-6)	
ACGIH	Not applicable	
OSHA	Not applicable	
Alcohols, C6-12, e	ethoxylated propoxylated (68937-66-6)	
ACGIH	Not applicable	
OSHA	Not applicable	
Alcohols, C6-10, e	ethoxylated propoxylated (68987-81-5)	
ACGIH	Not applicable.	
OSHA	Not applicable.	
Dimethyl adipate	e (627-93-0)	
ACGIH	Not applicable	
OSHA	Not applicable	
7-(Diethylamino)-	-4-methyl-2-benzopyrone (91-44-1)	
A C C I L	Net applicable	

7-(Diethylamino)-4-methyl-2-benzopyrone (91-44-1)		
ACGIH	Not applicable	
OSHA	Not applicable	

8.2. **EXPOSURE CONTROLS**

Appropriate engineering controls

: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Hand protection

Wear chemically resistant protective gloves.

Eye protection

: Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the

safe working limits of the selected respirator.

Environmental exposure controls

Maintain levels below Community environmental protection thresholds.

Other information

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid Appearance : Oily Colour : Green Odour : Mild

Odour threshold : No data available

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pH : Neutral

Melting point : No data available Freezing point : No data available

Boiling point : ~235 °C (~455 °F) (initial)

Flash point : >93 °C (>200 °F)
Relative evaporation rate (butylacetate=1) : No data available
Flammability (solid, gas) : Not flammable
Explosive limits : No data available
Explosive properties : No data available
Oxidising properties : No data available
Vapour pressure : No data available

Relative density : 0.99

Relative vapour density at 20 °C : No data available Solubility : No data available Partition coefficient: n-octanol/water : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available : No data available Viscosity : 18.7 - 22.9 cSt Viscosity, kinematic Viscosity, dynamic : No data available

9.2. OTHER INFORMATION

VOC content : 72 g/l

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2. CHEMICAL STABILITY

Stable under normal storage conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

10.4. CONDITIONS TO AVOID

Heat. Incompatible materials.

10.5. INCOMPATIBLE MATERIALS

Oxidizing agents, acids, bases.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon, nitrogen oxides, organic compounds, hazardous gases, toxic fumes

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity : Harmful if swallowed, in contact with skin or if inhaled.

ZL-67			
LD50 oral rat	>300 but ≤2000 mg/kg (Calculated using ATE values)		
LD50 dermal rabbit	>1000 but ≤2000 mg/kg (Calculated using ATE values)		
LC50 inhalation rat	>10.0 but ≤20.0 mg/l/4h (Caculated using ATE values)		
Alcohols, C12-14-secondary, ethoxylated (84133-50-6)			
LD50 oral rat	>412 mg/kg		
LD50 dermal rat	>14000 mg/kg		
LC50 inhalation rat	1.06 mg/l/4h (dust/mist)		
Dimethyl adipate (627-93-0)			
LD50 oral rat	1920 mg/kg		

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7-(Diethylamino)-4-methyl-2-benzopyrone (91-44-1)			
LD50 oral rat	5 g/kg		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye damage.		
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.		
Carcinogenicity	: Based on available data, the classification criteria are not met.		
Reproductive toxicity	: Based on available data, the classification criteria are not met.		
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.		
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.		
Aspiration hazard	: Based on available data, the classification criteria are not met.		
Symptoms/injuries after inhalation	: Harmful if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause respiratory irritation.		
Symptoms/injuries after skin contact	: Harmful in contact with skin. Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard.		
Symptoms/injuries after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.		
Symptoms/injuries after ingestion	: Harmful if swallowed. May cause stomach distress, nausea or vomiting.		

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Ecology - general : May cause long-term adverse effects in the aquatic environment.

12.2. PERSISTENCE AND DEGRADABILITY

ZL-67		
Persis	tence and degradability	Not established.
12.3.	BIOACCUMULATIVE POTENTIAL	

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ZL-67	
Bioaccumulative potential	Not established.

12.4. MOBILITY IN SOIL

No additional information available

12.5. OTHER ADVERSE EFFECTS

Effect on the global warming : No known effects from this product.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

SECTION 14: TRANSPORT INFORMATION

In accordance with DOT/TDG/IATA/IMDG

DOT (bulk) : UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Alcohols,

C6-17 (secondary) poly (3-6) Ethoxylated), 9, III, Marine Pollutant

DOT (non-bulk) : Not Regulated <119 gallons

TDG : UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Alcohols,

C6-17 (secondary) poly (3-6) Ethoxylated), 9, III, Marine Pollutant

IATA : UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Alcohols,

C6-17 (secondary) poly (3-6) Ethoxylated), 9, III, Marine Pollutant

IMDG : UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Alcohols,

C6-17 (secondary) poly (3-6) Ethoxylated), 9, III, Marine Pollutant

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ADDITIONAL INFORMATION

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: REGULATORY INFORMATION

15.1. FEDERAL REGULATIONS

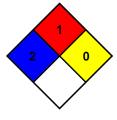
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Dimethyl adipate (627-93-0)	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories, except for:

Alcohols, C12-14-secondary CAS No 126950-60-5

NFPA health hazard : 2
NFPA fire hazard : 1
NFPA reactivity : 0



15.2. US STATE REGULATIONS

State or local regulations This product contains a

This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

Date of issue : 08/02/2016
Revision date : 08/02/2016
Other information : None.

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