



Distributor

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# **SECTION 1: IDENTIFICATION**

**IDENTIFICATION** 1.1. Product form : Mixtures : ZL-4C Product name RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST 1.2 Recommended use : Non-Destructive Testing. 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET Manufacturer Magnaflux 155 Harlem Ave. Glenview. IL 60025 - USA T 847-657-5300

#### **EMERGENCY TELEPHONE NUMBER** 1.4.

Emergency number

: CHEMTREC 800-424-9300

## **SECTION 2: HAZARDS IDENTIFICATION**

### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE 2.1.

The hazards given in this SDS apply to the product at full concentration. By diluting the product, the hazards will be reduced. It is up to the employer/user to determine the proper personal protection equipment and safety precautions when using diluted product.

**GHS** classification Skin Irrit. 2

Eye Irrit. 2A

#### 2.2. LABEL ELEMENTS

**GHS** labelling Hazard pictograms (GHS)

Signal word (GHS) Hazard statements (GHS) Precautionary statements (GHS)



- : Warning
- : Causes skin irritation. Causes serious eye irritation
- : Wash hands, forearms and face thoroughly after handling. Wear protective gloves, eye protection, face protection. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

### **OTHER HAZARDS** 2.3.

No additional information available UNKNOWN ACUTE TOXICITY 2.4. Not applicable

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### SUBSTANCE 3.1.

Not applicable

### 3.2 MIXTURES

Name	Product identifier	%
2,4-Pentanediol, 2-methyl-	(CAS No) 107-41-5	14.97
Alcohols, C12-15, ethoxylated propoxylated	(CAS No) 68551-13-3	14.00



## **SECTION 4: FIRST AID MEASURES**

## 4.1. DESCRIPTION OF FIRST AID MEASURES

First-aid measures after inhalation	:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	:	IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
4.2. MOST IMPORTANT SYMPTOMS AND	ר ב	FFECTS, BOTH ACUTE AND DELAYED
4.2. WOST INFORTANT STWPTOWS AND		
Symptoms/injuries after inhalation		May cause irritation to the respiratory tract.
	:	
Symptoms/injuries after inhalation	:	May cause irritation to the respiratory tract. Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the
Symptoms/injuries after inhalation Symptoms/injuries after skin contact	:	May cause irritation to the respiratory tract. Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and

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

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

# SECTION 5: FIREFIGHTING MEASURES

# 5.1. EXTINGUISHING MEDIA

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.
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, Aldehydes, Various hydrocarbon fragments.
Reactivity	: No dangerous reactions known under normal conditions of use.
5.3. ADVICE FOR FIREFIGHTERS	
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

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

### 6.1.1. FOR NON-EMERGENCY PERSONNEL

No additional information available

## 6.1.2. FOR EMERGENCY RESPONDERS

No additional information available

### 6.2. ENVIRONMENTAL PRECAUTIONS

Prevent entry to sewers and public waters.

## 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For containment

: Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up

: Sweep or shovel spills into appropriate container for disposal.

### 6.4. REFERENCE TO OTHER SECTIONS

For further information refer to section 8: "Exposure controls/personal protection"



# **SECTION 7: HANDLING AND STORAGE**

## 7.1. PRECAUTIONS FOR SAFE HANDLING

 Precautions for safe handling
 : Avoid contact with skin and eyes. 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.

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

## 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions : Keep out of the reach of children. Keep container tightly closed.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1. CONTROL PARAMETERS

2,4-Pentanediol, 2-methyl- (107-41-5)				
ACGIH	ACGIH Ceiling (ppm)	25 ppm		
NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>		
NIOSH	NIOSH REL (ceiling) (ppm)	25 ppm		
Alcohols, C12-15, ethoxylated propoxylated (68551-13-3)				

Not applicable

## 8.2. EXPOSURE CONTROLS

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Wear suitable gloves resistant to chemical penetration.
Eye protection	: Wear eye/face protection.
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	: Avoid release to the environment.
Other information	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or

smoke when using this product.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Appearance	: No data available
Colour	: Green
Odour	: Characteristic
Odour threshold	: No data available
pH	: Neutral
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: < 1 mm Hg
Relative vapour density at 20 °C	: No data available
Relative density	: 1.006
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 5.5 cSt
Viscosity, dynamic	: No data available
Explosive limits	: No data available



Oxidisi	ng properties	:	No data available
92	OTHER INFORMATION		

#### OTHER INFORMATION 9.2.

VOC content

: 15.496 g/l

# **SECTION 10: STABILITY AND REACTIVITY**

### 10.1. REACTIVITY

No dangerous reactions known under normal conditions of use.

10.2. CHEMICAL STABILITY

Stable under normal conditions.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known under normal conditions of use.

#### 10.4. CONDITIONS TO AVOID

Heat. Direct sunlight. Incompatible materials.

### 10.5. **INCOMPATIBLE MATERIALS**

Strong acids. Strong bases. Materials reactive with hydroxyl compounds. Alcohols. Amines. Oxidizing agent.

### HAZARDOUS DECOMPOSITION PRODUCTS 10.6.

May include, and are not limited to: oxides of carbon, Aldehydes, Various hydrocarbon fragments.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### INFORMATION ON TOXICOLOGICAL EFFECTS 11.1.

Acute toxicity (oral)	:	Not classified.
Acute toxicity (dermal)	:	Not classified.
Acute toxicity (inhalation)	:	Not classified.

ZL-4C	
LD50 oral rat	> 2000 mg/kg (Calculated acute toxicity estimate)
LD50 dermal rabbit	> 2000 mg/kg (Calculated acute toxicity estimate)
LC50 inhalation rat	> 20 mg/l/4h (Calculated acute toxicity estimate)

2,4-Pentanediol, 2-methyl- (107-41-5)	
LD50 oral rat 3	3700 mg/kg
LC50 inhalation rat >	> 310 mg/m³/1h

Alcohols, C12-15, ethoxylated propoxylate	i (68551-13-3)
LD50 oral rat	1350 mg/kg
LD50 dermal rat	2000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
	pH: Neutral
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: Neutral
Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
ZL-4C	
Viscosity, kinematic (calculated value) (40 °C	5.5 mm²/s



Symptoms/injuries after inhalation Symptoms/injuries after skin contact	<ul> <li>May cause irritation to the respiratory tract.</li> <li>Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the</li> </ul>	
	skin.	
Symptoms/injuries after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.	
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.	
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.	
SECTION 12: ECOLOGICAL INFORMATION		

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. TOXICITY

Ecology - general

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

2,4-Pentanediol, 2-methyl- (107-41-5)	
LC50 fish 1	10500 - 11000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	2700 - 3700 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

### PERSISTENCE AND DEGRADABILITY 12.2.

ZL-4C	
Persistence and degradability	Not established.

### 12.3. **BIOACCUMULATIVE POTENTIAL**

ZL-4C	
Bioaccumulative potential	Not established.
2,4-Pentanediol, 2-methyl- (107-41-5)	
Partition coefficient n-octanol/water	< 0.14
<u>.</u>	

### 12.4. **MOBILITY IN SOIL**

No additional information available

#### **OTHER ADVERSE EFFECTS** 12.5.

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

Other information

: No other effects known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### WASTE TREATMENT METHODS 13.1.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

# **SECTION 14: TRANSPORT INFORMATION**

In accordance with DOT/TDG/IATA/IMDG	
DOT (bulk)	: Not regulated for transport
DOT (non-bulk)	: Not regulated for transport
Transportation of Dangerous Goods	: Not regulated for transport
IATA	: Not regulated for transport
IMDG	: Not regulated for transport

# **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.

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.



Alcohols, C12-15, ethoxylated propoxylated (68551-13-3)		
EPA TSCA Regulatory Flag		exempt from reporting under the Inventory Update Reporting TSCA Inventory Data Base Production and Site Reports (40
NFPA health hazard	: 2	
NFPA fire hazard	: 0	
NFPA reactivity	: 0	2 0



### **15.2. INTERNATIONAL REGULATIONS**

No additional information available.

# **15.3. US STATE REGULATIONS**

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

2,4-Pentanediol, 2-methyl- (107-41-5) U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List	
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# **SECTION 16: OTHER INFORMATION**

Revision date Other information Prepared by

: 07/12/2021

- : None.
- : Nexreg Compliance Inc.

www.Nexreg.com



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