

# SAFETY DATA SHEET

According to Safe Work Australia

## 1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** ZL-27A AEROSOL

**Other Means of Identification:** Mixture

**Part Number:** 13010037

**Recommended Use of the Chemical and Restriction on Use:** Non-destructive testing

**Details of Manufacturer or Importer:**

Andrew Engineering Pty Ltd

86-90 Northern Road

West Heidelberg VIC 3081

**Phone Number:** +61 3 9457 0700

**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2. HAZARDS IDENTIFICATION

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



flame

Flam. Aerosol 2 H223-H229 Flammable aerosol. Pressurised container: May burst if heated.



health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

**Signal Word** Danger

**Hazard Statements**

H223-H229 Flammable aerosol. Pressurised container: May burst if heated.

H304 May be fatal if swallowed and enters airways.

**Precautionary Statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Hazardous Components:**

68476-86-8	Petroleum gases, liquefied, sweetened	15- 40%
	 Flam. Gas 1, H220;  Flam. Liq. 1, H224;  Press. Gas C, H280	

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8042-47-5	White mineral oil, petroleum ⚠ Asp. Tox. 1, H304	10- 30%
64742-47-8	Distillates (petroleum), hydrotreated light ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304	10- 30%
8001-79-4	Castor oil ⚠ Flam. Liq. 4, H227	7- 13%
115-86-6	triphenyl phosphate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.5- 1.5%
91-44-1	7-(diethylamino)-4-methyl-2-benzopyrone ⚠ Acute Tox. 2, H300; Acute Tox. 2, H310; Acute Tox. 2, H330	0.5- 1.5%

## Additional information:

Note K: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1% w/w 1,3 butadiene (EINECS no. 203-450-8). This note applies to certain complex oil-derived substances in Annex I (CAS No. 68476-86-8).

## 4 . FIRST AID MEASURES

### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

### Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

### Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek immediate medical attention.

### Ingestion:

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

### Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation, drowsiness and dizziness.

Skin Contact: May cause skin irritation, redness, drying, defatting and cracking.

Eye Contact: May cause eye irritation, redness, swelling and tearing.

Ingestion: May cause nausea, vomiting and chemical pneumonitis if aspirated into lungs. May be fatal if swallowed and enters airways.

## 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Foam or carbon dioxide. Do not use full water jet.

### Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and nitrogen.

Combustible liquid and vapours.

Containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

### Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

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## 6 . ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

### Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

### Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools.

## 7 . HANDLING AND STORAGE

### Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

### Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Protect from direct sunlight. Do not expose to temperatures exceeding 50 °C. Keep away from sources of ignition - no smoking. Do not spray on an open flame or other ignition source. Pressurized container. Do not pierce or burn, even after use. Container may explode if heated. Keep away from strong oxidising agents.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Standards:

#### 64742-47-8 Distillates (petroleum), hydrotreated light

OSHA-PEL	100 ppm
ACGIH-TLV	200 mg/m <sup>3</sup>

#### 68476-86-8 Petroleum gases, liquefied, sweetened

OSHA-PEL	1000 ppm
ACGIH-TLV	1000 ppm

#### 115-86-6 triphenyl phosphate

NES	TWA: 3 mg/m <sup>3</sup>
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### Engineering Controls:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below the limits.

### Respiratory Protection:

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

### Skin Protection:

Chemical resistant gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards

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the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

## Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:

Form:	Oily liquid
Colour:	Green
Odour:	Mild oily odour
Odour Threshold:	No information available
pH-Value:	Neutral
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	~235 °C
Flash Point:	~93 °C
Flammability:	Combustible Liquid Class 1
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	1 %
Upper:	6 %
Vapour Pressure at 24 °C:	60 psi
Relative Density:	0.96
Vapour Density:	>1
Evaporation Rate:	Negligible
Solubility in Water:	Insoluble
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	9.17- 11.21 cSt

## 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** No dangerous reactions known under conditions of normal use.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** Heat, sparks, open flames and other sources of ignition.

**Incompatible Materials:** Strong oxidising agents.

**Hazardous Decomposition Products:** Oxides of carbon and nitrogen.

## 11 . TOXICOLOGICAL INFORMATION

### Toxicity:

<b>LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:</b>		
<b>68476-86-8 Petroleum gases, liquefied, sweetened</b>		
Inhalation	LC <sub>50</sub> /4 h	658 mg/L (rat)
<b>8042-47-5 White mineral oil, petroleum</b>		
Oral	LD <sub>50</sub>	>5000 mg/kg (rat)
Dermal	LD <sub>50</sub>	>2000 mg/kg (rabbit)
Inhalation	LC <sub>50</sub> /4 h	>5 mg/L (rat)

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<b>64742-47-8 Distillates (petroleum), hydrotreated light</b>		
Oral	LD <sub>50</sub>	>5000 mg/kg (rat)
Dermal	LD <sub>50</sub>	>2000 mg/kg (rabbit)
Inhalation	LC <sub>50</sub> /4 h	5.2 mg/l (rat)
<b>8001-79-4 Castor oil</b>		
Oral	LD <sub>50</sub>	>4952 mg/kg (rat)
<b>115-86-6 triphenyl phosphate</b>		
Oral	LD <sub>50</sub>	3500 mg/kg (rat)
Dermal	LD <sub>50</sub>	>7900 mg/kg (rabbit)
<b>91-44-1 7-(diethylamino)-4-methyl-2-benzopyrone</b>		
Oral	LD <sub>50</sub>	5 g/kg (rat)

### Acute Health Effects

**Inhalation:** May cause respiratory irritation, drowsiness and dizziness.

**Skin:** May cause skin irritation, redness, drying, defatting and cracking.

**Eye:** May cause eye irritation, redness, swelling and tearing.

### Ingestion:

May cause nausea, vomiting and chemical pneumonitis if aspirated into lungs. May be fatal if swallowed and enters airways.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

### Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

### Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** May be fatal if swallowed and enters airways.

**Chronic Health Effects:** No information available

**Existing Conditions Aggravated by Exposure:** No information available

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:** No information available

**Aquatic toxicity:** Toxic to aquatic life with long lasting effects.

**Persistence and Degradability:** No information available

**Bioaccumulative Potential:** No information available

**Mobility in Soil:** No information available

**Other adverse effects:** No information available

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## 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 . TRANSPORT INFORMATION

**UN Number**  
**ADG, IMDG, IATA** 1950

**Proper Shipping Name**  
**ADG, IMDG, IATA** AEROSOLS

**Dangerous Goods Class**  
**ADG Class:** 2.1

**Packing Group:** Not applicable

**Marine pollutant:** No

**EMS Number:** F-D,S-U

**Hazchem Code:** 2YE

**Special Provisions:** 63, 190, 277, 327

**Packagings & IBCs - Packing Instruction:** P003, LP02

**Packagings & IBCs - Special Packing Provisions:** PP17, PP87, L2

**Portable Tanks & Bulk Containers - Instructions:** No information available

**Portable Tanks & Bulk Containers - Special Provisions:** No information available

## 15 . REGULATORY INFORMATION

### Australian Inventory of Chemical Substances:

68476-86-8	Petroleum gases, liquefied, sweetened
8042-47-5	White mineral oil, petroleum
68551-13-3	Alcohols, C12-15, ethoxylated propoxylated
84133-50-6	Alcohols, C12-C14-secondary, ethoxylated
111-05-7	9-Octadecenamide, N-(2-hydroxypropyl)-, (Z)-
64742-94-5	Solvent naphtha (petroleum), heavy arom.
8000-41-7	Terpineol
91-20-3	naphthalene

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**  
Poisons Schedule: 6

## 16 . OTHER INFORMATION

**Date of Preparation or Last Revision:** 20.08.2015

**Prepared by:** MSDS.COM.AU Pty Ltd

[www.msds.com.au](http://www.msds.com.au)

**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

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IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

LC<sub>50</sub>: Lethal concentration, 50 percent

LD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

### Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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