

SAFETY DATA SHEET

According to Safe Work Australia

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: ZP-9F AEROSOL

Other Means of Identification: Mixture

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.



Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Signal Word Warning

Hazard Statements

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

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P405 Store locked up.

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

Additional Information AUH066 Repeated exposure may cause skin dryness or cracking.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

67-64-1	Acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	30- 60%
67-63-0	Propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	10- 30%
115-77-5	pentaerythritol	10- 30%
124-38-9	Carbon dioxide ⚠ Press. Gas L, H280	5- 10%

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, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if symptoms persist.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never 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: Causes serious eye irritation, pain, redness, swelling and tearing.

Ingestion: May be harmful if swallowed. May cause nausea and vomiting.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, dry chemical or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon.

Product is flammable. Vapours may travel considerable distances to a source of ignition where they can ignite, flashback, or explode.

Closed 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, strong acids and strong bases.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

67-63-0 Propan-2-ol

NES	STEL: 1230 mg/m ³ , 500 ppm TWA: 983 mg/m ³ , 400 ppm
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115-77-5 pentaerythritol

NES	TWA: 10 mg/m ³
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67-64-1 Acetone

NES	STEL: 2375 mg/m ³ , 1000 ppm TWA: 1185 mg/m ³ , 500 ppm
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124-38-9 Carbon dioxide

NES	STEL: 54000 mg/m ³ , 30000 ppm TWA: 9000 *22500 mg/m ³ , 5000 *12500 ppm *in coal mines
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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.

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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 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:	Aerosol
Colour:	Colourless
Odour:	Characteristic
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	56 °C (at 100 kPa)
Flash Point:	Not applicable, as aerosol.
Flammability:	Flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	2 % (propan-2-ol)
Upper:	12.8 % (acetone)
Vapour Pressure:	No information available
Relative Density:	~0.8
Vapour Density:	>1
Evaporation Rate:	No information available
Solubility in Water:	Soluble in water
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available
VOC:	~80 %

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, strong acids and strong bases.

Hazardous Decomposition Products: Oxides of carbon.

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11 . TOXICOLOGICAL INFORMATION

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

67-64-1 Acetone

Oral	LD ₅₀	5800 mg/kg (rat)
Dermal	LD ₅₀	20000 mg/kg (rabbit)
Inhalation	LC ₅₀ /8 h	50100 mg/m ³ (rat)

67-63-0 Propan-2-ol

Oral	LD ₅₀	4396 mg/kg (rat)
Dermal	LD ₅₀	12800 mg/kg (rat) 12870 mg/kg (rabbit)
Inhalation	LC ₅₀ /4 h	72.6 mg/L (rat)

115-77-5 pentaerythritol

Oral	LD ₅₀	10000 mg/kg (rat)
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Acute Health Effects

Inhalation: May cause respiratory irritation, drowsiness and dizziness.

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

Eye: Causes serious eye irritation, redness, swelling and tearing.

Ingestion: May be harmful if swallowed. May cause nausea and vomiting.

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

Serious Eye Damage / Irritation: Causes serious eye irritation.

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:

Propan-2-ol is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

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

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause drowsiness and dizziness.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

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

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: Repeated exposure may cause skin dryness or cracking.

Existing Conditions Aggravated by Exposure: No information available

12 . ECOLOGICAL INFORMATION

Ecotoxicity: No information available

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

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available

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Other adverse effects: No information available

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:

67-64-1	Acetone
67-63-0	Propan-2-ol
115-77-5	pentaerythritol
124-38-9	Carbon dioxide

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

Poisons Schedule: 5

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 28.08.2015

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

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

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

VOC: Volatile Organic Compounds

LC₅₀: Lethal concentration, 50 percent

LD₅₀: 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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