### 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

PRODUCT NAME: SILVER ZINC

Synonyms: None

Recommended Use: Zinc rich primer to protect Steel

Supplier: Minehan Agencies Pty Ltd

Address: 29 Camuglia Street GARBUTT Townsville Queensland Australia 4814

**Telephone:** (07) 4774 4626 **Facsimile**: (07) 4774 4616

E-mail: inquiry@minehanagencies.com.au

Emergency telephone number: 0408 777 800 (24Hrs Australia)

### 2. HAZARDS IDENTIFICATION

This product is classified as:

Hazardous Substance according to criteria of the National Occupational Health and Safety Commission (NOHSC).

**Dangerous Goods** according to the Australian Dangerous Goods Code (ADG Code).

Approved Criteria Classification (Calculated).	FLAMMABLE R10, HARMFUL R20/22 R36/38 Safety Phrases S1/2, S36/37/39
SUSDP Classification	Poison S5
ADG Classification	Class 2.1 (Flammable Gas.)
Un Number	1950

# **EMERGENCY OVERVIEW**

COLOUR	Grey
PHYSICAL DESCRIPTION	AEROSOL
ODOUR	Solvent
MAJOR HEALTH HAZARD	Flammable. May cause lung damage. Prolonged or deliberate over exposure may be harmful. Eye & Skin irritant.

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## POTENTIAL HEALTH EFFECTS

**Inhalation:** Short term exposure. Vapour is irritating to nose and throat and may cause nausea, vomiting, difficulty breathing, headache, drowsiness, symptoms of drunkenness, and lung congestion. **Long term Exposure**. Possible lung and respiratory tract damage. May trigger pre-existing respiratory complaints. Repeated overexposure may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in arms and legs.

**Skin Contact:** Short term exposure. Defatting and drying of Skin Long term exposure. Prolonged use may cause irritation, redness and dermatitis.

**Eye Contact:** Short term exposure. Will cause irritation and may damage eye tissue. Long-term exposure. Not know.

**Ingestion**: Short term exposure. Headaches, nausea, and severe abdominal pain may result. Vomiting may cause product to be aspirated into the lungs possibly resulting in chemical pneumonitis. **Long-term exposure**. Not known

**Carcinogen Status** 

NOHSC	Car Cat 2
NTP	Not Classified
IARC	Not Classified

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS No	PROPORTION W/W %
Acetone	67-64-1	30-60%
LPG (sweetened) Propellant	68476-86-8	10-30%
Aromatic Hydrocarbons	mixture	10-30%
Aluminium Paste	64747-95-6	<10%
Zinc Dust	1314-13-2	<5%
Other ingredients determined not to	be hazardous	to 100%

#### 4. FIRST AID MEASURES

Poison Information Centres in each State capital city can provide additional assistance for Scheduled Poisons: Phone (Australia 13 1126).

**Inhalation:** Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Perform artificial respiration if needed. Allow patient to assume most comfortable position and keep warm. Seek medical attention.

**Skin Contact:** Remove contaminated clothing. Wash contaminated skin for at least 15-20mins with of water, or until no evidence of the chemical remains. If swelling, redness, blistering, or irritation occurs seek medical advice. Wash clothing before re-use.

**Eye Contact:** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. If present, remove contact lenses. Seek medical attention.

**Ingestion:** Immediately rinse mouth with water. Do NOT induce vomiting. Seek urgent medical attention.

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**Notes to Physician:** Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

Flash Point: -156°C (propellant)

**Fire and Explosion Hazard:** Flammable GAS. Vapour may form explosive mixtures with air. Closed containers exposed to heat may violently explode.

**Specific Hazards:** Sealed containers may explode in a large fire.

**Fire Fighting**: Move containers from fire area if it can be done without risk. Cover exposed liquid with foam. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. **Suitable Extinguishing Media:** Use foam, CO<sub>2</sub> or dry chemical powder to extinguish surrounding fire.

**Hazardous Decomposition in Products: On** burning may emit fumes including carbon monoxide, carbon dioxide, and partially burned hydrocarbons. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

Hazchem Code: 3[Y]E

#### 6. ACCIDENTAL RELEASE MEASURES

Flammable Gas. Remove all ignition sources. Stop leak if possible without personal risk. Wear protective equipment to prevent personal injury (see section 8). Small spills (< 5L) Remove all ignition sources. Cover with an absorbent material (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal. Hose down area with large amounts of dilute detergent. Caution, Slip Hazard. Large spills (>5L) Remove all ignition sources. Consider evacuation of area. Prevent run off into drains and waterways. Dam material. Cover with foam to prevent ignition then apply absorbent material. Collect and seal in properly labelled containers for disposal. Hose down area with large amounts of dilute detergent. Keep unnecessary people away, isolate hazard area and deny entry. If contamination of sewers or waterways has occurred, advise local emergency services.

### 7. HANDLING AND STORAGE

Store below 48°C in a well-ventilated area away from heat and ignition sources. Store in a cool, dry place and out of direct sunlight. Store away from foodstuffs, strong oxidizing agents, and strong acids. Store in original containers. Check regularly for leaks. This material is a Class 2 Flammable GAS and must be stored, maintained and used in accordance with the relevant regulations. Handle using good industrial hygiene practices (see section 8 on personal protection).

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:** No value has been assigned for this specific material by NOHSC. However exposure limits for ingredients are shown below

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Ingredient	TWA	STEL	Notices
Acetone	1000ppm		
LPG (sweetened)	1000ppm		

TWA – the Time-Weighted Average airborne concentrations over an eight hour working day, for a five day week over an entire working life.

STEL (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day. According to current knowledge, these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Sk Notice – absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

Sen Notice-Sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to minute levels of that substance.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Biological Limit Value: No biological limit allocated.

**Engineering Controls:** Use only in well ventilated areas. Exhaust ventilation may be required to prevent build-up of flammable vapours and to maintain air concentrations below Exposure Standards. Flameproof equipment is necessary in any area where product is being used. Product transfer and storage equipment must be earthed. Keep containers closed when not in use.

### **Personal Protection Equipment**

**Respirator Type (AS 1716):** If inhalation risk exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Eye Protection:** Safety glasses with side shields or goggles should be worn as described in Australian Standard AS/NZS 1337 – Eye Protectors for Industrial Applications.

**Glove Type:** Impervious PVC or rubber gloves should be worn.

**Clothing:** Suitable protective clothing should be worn eg: cotton overalls buttoned at neck and wrist.

Work/Hygienic Practices: Always wash hands before smoking, eating, drinking or using the toilet.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Aerosol	Water Solubility	Insoluable
Colour	Silver gray	Vapour Pressure	760 mmHg
Odour	Solvent	Vapour Density	Above 1 (air =1)
Boiling Point	NA	Evaporation Rate	Faster than butyl acetate
Melting Point	NA	% Volatiles	90%
Freezing Point	NA	Flash Point	-156 °C
Specific Gravity	1.1-1.2g/ml (water =1)	Flammability Limits	LEL 0.7% - UEL 6.0 %
Ph (neat)	NA	Ignition Temperature	NA

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### 10. STABILITY AND REACTIVITY

**Reactivity:** Stable at normal temperatures and pressure.

**Conditions to Avoid:** Avoid temperatures above 48°C. Avoid contact with incompatible materials.

**Incompatibilities:** Strong Oxidising Agents

Explosive reactions may occur with strong oxidising agents.

Hazardous Decomposition: Thermal decomposition products include, sulphur dioxide, carbon dioxide, carbon

monoxide, and Nitrous oxides.

**Polymerisation:** Will not polymerise.

### 11. TOXICOLOGICAL INFORMATION

## Silver Zinc

**Local Effects**: Harmful by over exposure. Irritant to skin and eyes. **Target Organs**: Heart, Blood, CNS, and Kidneys and Liver.

## **Classification of Hazardous Ingredients**

Ingredients	R Phrases
LPG (sweetened)	Car Cat 2 R45
Acetone	R36 R66 R67

### **Individual Ingredient Information**

**LPG** 

Irritation Data: No known applicable information

**Toxicity Data:** No known applicable information

Local Effects: Irritant: inhalation, skin, eyes

Acute Toxicity Level: Toxic by inhalation at concentrations well above TWA

Target Organs: Respiratory System, Central Nervous System.

Mutagenic Data: No known applicable information

**Reproduction Effects Data**: No known applicable information

Acetone

Irritation Data: Eye human, 186,300 ppm mild. Eye rabbit, 20mg severe.

Toxicity Data: Oral human, lowest published lethal dose, 714mg/kg. Oral mouse LD50, 3gm/kg.

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Local Effects: Irritant: inhalation, skin, eyes

**Acute Toxicity Level**: Inhalation human, lowest published toxic concentration, 500ppm, conjunctiva irritation. Inhalation human, lowest published toxic concentration, 12,000ppm/4hr, nausea or vomiting.

Target Organs: Respiratory System, Central Nervous System.

Mutagenic Data: Inhalation mouse, sex chromosome loss and nondisjunction, 12gm/L

Reproduction Effects Data: Inhalation mouse, lowest published fetotoxic concentration, 6,600ppm (6-17 day

pregnant)

#### 12. ECOLOGICAL INFORMATION

**General Statement**: Contains green house gases. It is expected that this product will have adverse ecological effects. It is recommended that extreme caution be taken to avoid discharge to waterways, grasslands and other areas with local fauna and flora.

**Ecotoxicity**: No specific information available for this product however it is expected that this product is toxic to aquatic life and continuous exposure is likely to result in adverse effects in these organisms.

**Persistence and Degradability**: No specific information available for this product, however it is expected that this product will NOT persist in the environment and will rapidly degrade.

**Mobility:** No specific information available for this product.

### 13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority for disposal, show this MSDS for their consideration. Empty containers not to be recycled or used for any other purpose. Dispose in accordance with local regulations.

## 14. TRANSPORTATION INFORMATION

UN No	1950
<b>Proper Shipping Name</b>	Flammable Gas
ADG Code	Class 2.1
Sub Risk	No sub risk
Packing Group	None allocated
<b>Special Precautions</b>	None
Hazchem Code	3[Y]E
EPG	2D1
Segregations	Yes

#### 15. REGULATORY INFORMATION

SUSDP: Poison S5

AICS: All of the constituents of this material are listed on the ACIS.

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### 16. OTHER INFORMATION

Issue Date: Octej '4236

Reason(s) For Issue: Initial Issue

**Labelling Details** 

First line of Label must read: CAUTION Flammable Gas

Other statements to include

**R10** Flammable

**R20/22** Harmful by inhalation and if swallowed

R36/38 Irritating to eyes & skinS2 Keep out of reach of children.

S36/37/39 Wear Suitable protective clothing, gloves and eye/face protection

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label

wherever possible).

#### **Abbreviations & Acronyms**

SUSPD: Standard for the Uniform Scheduling of Drugs and Poisons

ADG: Australian Code for the Transport of Dangerous Goods by Road and rail

N.O.S. Not Otherwise Specified

CAS No: Chemical Abstracts Service Registry Number

UN No: United Nations Number

**R-Phrases:** Risk Phrases **S-Phrases:** Safety Phrases

**HAZCHEM Code:** Hazardous Chemical emergency action code **NOHSC:** National Occupational Health and Safety Commission

**IARC:** International Agency for Research into Cancer **ACIS:** Australian Inventory of Chemical Substances

**NTP:** National Toxicology Program (USA)

#### Literary references:

Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(41999)]

National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC: 2011(2003)]

Exposure Standards for Atmospheric Contaminants in the Occupational Environment

Guidance Note [NOHSC: 3008(1995)] National Exposure Standards [NOHSC: 10005(1999)]

List of Designated Hazardous Substances [NOHSC: 10005(1999)] Standard for the Uniform Scheduling of Drugs and Poison No. 17

The Australian Code for the Transport of Dangerous Goods by Road and Rail EDITION 6

#### **Disclaimer**

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product and in particular how to safely handle and use the product in the workplace.

Since Minehan Agencies Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace i.e. a risk analysis.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Minehan Agencies Pty Ltd.

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