



**NATIONAL ADHESIVE DISTRIBUTORS CC**

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# MATERIAL SAFETY DATA SHEET

## SECTION 1. PRODUCT INFORMATION

Product Name: **ZINC GALVANIZING SPRAY**

Product Classification: AEROSOL SPRAY RUST PROTECTOR

Product Code: 00-SPRAY6342

Healthy Rating: 2

Flammability rating: 4

Reactivity Rating: 0

## SECTION 2. INGREDIENT INFORMATION

Ingredient	CAS Number	Weight %
ZINC	7440-66-6	45-53
BUTANE	106-97-8	10-15
PROPANE	74-98-6	10-15
METHYL ETHYL KETONE(MEK)	78-93-3	8-13
SOLVENT NAPHTHA (PETROLEUM)	64742-89-8	4-9
RESIN EPOXY ESTER	66070-75-5	1-5
TOLUENE	108-88-3	2-5
ALUMONO SODIUM SILICATE	1344-00-9	0.5-1

**Notes:**

Minute quantities of the substances listed below may be emitted during normal use:



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**Substance**

**Condition**

Hydrocarbons

Normal use

Ketones

Normal use

Toxic Vapour, Gas, Particulate Normal use

**SECTION 3. PHYSICAL DATA**

**Appearance-Viscosity-Odour-pH:** Viscous Liquid, White/Coloured. Solvent Odour.

**Boiling Point:** 56°C-166°C

**Vapour Pressure (mm Hg @ 25°C):** Not known

**Vapour Density (Air=1):** Not known

**Solubility in Water (g/L @20°C):** Not known

**Percent Volatile (by weight):** 80-90 by volume

**SECTION 4. HEALTH AND HAZARD INFORMATION**

**Health Effects:**

**Skin:** Irritating to skin upon repeated or prolonged contact.

**Eyes:** Moderately irritating to eyes.

**Inhaled:** Vapour or mist is irritating to mucous membranes and respiratory system. Excessive inhalation can cause headache, nausea, dizziness or asphyxiation.

**Swallowed:** Can be harmful if swallowed.

**Long Term Hazard:** Overexposure to solvents can damage brain, kidneys, liver and lungs.

**First Aid:**

**Skin:** Wash affected area thoroughly with soap and water.

**Eyes:** Flush eyes immediately with plenty of water for at least 15 minutes and get medical attention.

**Inhaled:** Provide fresh air; give oxygen or artificial respiration if breathing laboured.

**Swallowed:** If swallowed dilute by giving two glasses of water to drink. DO NOT induce vomiting - consult Physician or National Poison Centre IMMEDIATELY. Never give anything by mouth to an unconscious person.

**Advice to Doctor:** Treat symptomatically.



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## SECTION 5. PRECAUTION FOR USE

### 5.1 FLAMMABLE PROPERTIES

FLASH POINT	-156°F
Flammable Limits (LEL)	0.9%
Flammable limits (UEL)	Approximately 10%
OSHA Flammability Classification:	Class IB flammable liquid

### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide). Do not use water

### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Flammable liquefied gas. Closed containers exposed to heat from fire may build pressure and explode. Extremely flammable liquid and vapour. Vapours may travel long distances along the ground or floor to an ignition source and flash back. Aerosol container contains flammable material under pressure.

### 5.4 PERSONAL PROTECTION:

**Skin:** Protective clothing. Gloves of neoprene or nitrile rubber

**Eyes:** Solvent resistant safety eyewear with splash guards or side shields to prevent eye contact.

**Other:** Use in well-ventilated area with explosion proof equipment.

**Ventilation:** Sufficient ventilation, in volume and pattern, should be provided to keep air concentrations below WES - TWA limits. contamination



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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Person-related safety:** Provide adequate ventilation.

**Environmental safety:** Prevent seepage into watercourses or the sewage system.

**Measures for cleaning:** Absorb with liquid-binding material (sand, sawdust) and collect in a container for disposal.

**SECTION 7. HANDLING AND STORAGE**

**Storage Temperature:** Min: 1°C; Maximum: 40°C. Store cool at cool & constant temperature.

**Container Type & Material:** Pressurized steel canisters.

**Incompatible Substances:** Strong oxidizers, acids, alkalis

**Conditions to Avoid:** Heat, open flame, arc or sparks.

**Hazardous Polymerization:** Will not occur.

**Usual Decomposition Products:** Oxides of Carbon and Nitrogen.

**SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Workplace Exposure Limits:**

No limits assigned.

**Personal protective equipment:**

None required.

**Industrial hygiene:**

Do not eat or drink when using product. Wash hands after use.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Specific Physical Form:** Compressed Gas

**Odour:** Hydrocarbon odour

**Colour & Grade:** Grey, heavy metal

**General Physical Form:** Liquid

**Flash Point (°C):** -69°C (-156°F) (Propellant Gas)

**Flammable Limits (LEL):**0.9%



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<b>Flammable Limits (UEL):</b>	approx.10%
<b>Boiling Point (°C):</b>	-44-325°F
<b>Freezing Point (°C):</b>	Not Determined
<b>Vapour Pressure:</b>	Not Determined
<b>Vapour Density:</b>	Not Determined
<b>Solubility:</b>	Not Determined
<b>Specific Gravity:</b>	1.95 Kg/L
<b>Ignition Temperature:</b>	Not Determined
<b>% Volatile:</b>	approx. 88%
<b>Other Properties:</b>	Can Pressure 2 - 6 Bar

**SECTION 10. STABILITY AND REACTIVITY**

Pressurized container may rupture if subjected to excessive heat.

Product must be stored below 50°C.

Hazardous Polymerization:	Not Applicable
Conditions to avoid Polymerization:	Not Applicable
Stability:	Stable
Conditions to avoid instability:	Sources of heat and ignition.
Materials to avoid:	Strong acids, bases and oxidizing agents.

**Hazardous Decomposition or By-Products:**

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Oxide of lead	During Combustion



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Oxide of Zinc

During Combustion

**Hazardous decomposition:**

Traces of lead and cadmium are present as 0.02WT% lead and 0.04WT% cadmium

**SECTION 11. ECOLOGICAL INFORMATION**

**Eco-toxicity:** The residual solids may be harmful to aquatic species.

**Persistence / Degradability:** Not determined

**Mobility:** Not determined

Note: This substance contains highly volatile material that will rapidly evaporate to the air.

**SECTION 12. TOXICOLOGICAL INFORMATION**

Likely routes of exposure that may result in adverse health effects are inhalation of overspray dusts and accidental contact with skin and eyes:

**ACUTE EFFECTS:**

**Inhalation of overspray dusts:** Irritation of nose and throat and possible drowsiness.

**Eye:** Severe irritant. Physical damage could occur from the effect of aerosol pressure.

**Skin:** Moderate irritant and drying effect.

**Long Term Effects:** Prolonged or repeated skin exposure may lead to dermatitis through the drying action of the solvent.

**No other adverse health effects are expected if the product is handled in accordance with the safety data sheet and the product label. Symptoms that may arise if the product is mishandled are:**

**ACUTE EFFECTS:**

**Eye:** Severe irritant. Physical damage could occur from the effect of aerosol pressure.

**Skin:** Moderate irritant and drying effect.

**Inhaled:** Harmful by inhalation. Irritation of nose and throat and possible drowsiness.

**Swallowed:** Harmful if swallowed.

**CHRONIC EFFECTS:**



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Prolonged or repeated skin exposure may lead to dermatitis through the drying action of the Solvent. Prolonged or repeated inhalation exposure to high concentrations of vapours may affect the central nervous system.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Product:

Waste is not classified as hazardous. Can be disposed of as normal waste.

#### Contaminated packaging:

Wash with water for disposal or recycling.

### SECTION 14. TRANSPORTATION CONSIDERATIONS

Transportation Information:

OSHA CLASS N/A

PER DOT N/A

DOT Class N/A

PER IMCO N/A

IMCO Classification Number N/A

IATA Classification Number N/A

### SECTION 15. REGULATORY INFORMATION

**Extremely Hazardous Substances:** None

**CERCAL Hazardous Substances:** None

**Toxic Chemicals:** None present or none present in regulated quantities.

### SECTION 16. SPECIAL PRECAUTIONS

- Keep away from children.
- Can pressurised - Do not puncture or incinerate.
- Do not spray near fire or open flame.
- Deliberate exposure & inhalation of concentrated vapours may be harmful or fatal - Use product in well ventilated areas.



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**REVISED MAY 2019**