

## MATERIAL SAFETY DATA SHEET

### SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	ZINC 95
Manufacturer's Product Code	5028
Other Names	Cold galvanising zinc spray aerosol.
Major Recommended Uses	As a cold galvanising spray on metal surfaces to prevent the formation and propagation of iron oxide (rust).
Supplier's Details	Mantek 7 Ralph Street, Alexandria Sydney NSW 2015 Telephone Number (Office Hours): (02) 9669 0261 Fax Number: (02) 9693 1562 Emergency Telephone Number: (02) 9214 0755
Date of Issue	July 2007

### SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification	Classified as hazardous according to the criteria of NOHSC.
Dangerous Goods Class & Sub-risk	Class 2.1, no sub-risk.
Poisons Schedule	Schedule 5
Risk Phrases	Extremely flammable propellant. Harmful by inhalation; may cause lung damage if swallowed and aspirated into lungs.
Safety Phrases	Keep out of reach of children. Keep container in a well-ventilated place. Keep away from sources of ignition – NO smoking. Take precautions against static discharges. Do not breathe spray. Avoid contact with eyes - in case of contact, rinse immediately with plenty of water and seek medical advice. If swallowed, do not induce vomiting: seek medical advice immediately and show label. In case of accident or if you feel unwell, seek immediate medical advice.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients		
Chemical Entity	CAS No	Proportion
Zinc metal pigment	-	10-30%
Liquid hydrocarbons	64742-95-6	10-30%
Toluene	108-88-3	10-30%
Dimethyl ether propellant	115-10-6	10-30%
'Ingredients determined not to be hazardous'		to 100%

### SECTION 4 – FIRST AID MEASURES

Skin	Remove contaminated clothing and shoes and wash skin with soap and water. Wash clothing and clean shoes before reuse. Seek medical attention if any irritation persists.
Eye	Hold eyelids apart and rinse eyes thoroughly with water for several minutes, taking care not to rinse contaminated water into the non-affected eye. Seek medical attention if irritation develops.
Inhalation	Remove to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion	If swallowed do NOT induce vomiting – give a glass of water. If sprayed in mouth, rinse out then give water to drink. Do not give anything by mouth to an unconscious or convulsing person. Seek medical attention.
First Aid Facilities	General eyewash and safety shower facilities.
Advice to Doctor	There is no specific antidote. Treat the patient symptomatically. If over 2mL/kg has been ingested and vomiting has not occurred, induce emesis carefully. Keep head below hips to avoid aspiration into lungs. Aspiration is the main danger. If gas reflux is inhibited or unconsciousness has occurred, gastric lavage using a cuffed endotracheal tube is indicated.
Additional Information	Medical conditions aggravated by exposure are pre-existing skin conditions such as dermatitis. The primary routes of entry into the body are via inhalation and absorption.

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### SECTION 5 – FIRE FIGHTING MEASURES

Aerosol propellant is a highly flammable gas.	
Suitable Extinguishing Media	In the event of a fire, dry chemical, foam and CO <sub>2</sub> are the recommended extinguishing agents.
Special Protective Equipment and Precautions for Fire Fighters	Fire fighters should wear self-contained breathing apparatus, particularly in confined spaces or in oxygen deficient atmospheres, and full protective clothing.
Fire/Explosive Hazards	Spray exposed aerosol containers with water spray to prevent bursting. If safe to do so, move undamaged containers from fire area. Vapours are heavier than air and may travel to distant sources of ignition and flashback.
Hazchem Code	2Y

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

Methods and Materials for Containment and Clean Up	Eliminate all sources of ignition, heat and naked flames. Do not smoke during the clean-up procedure. Ventilate area. Due to the nature of aerosol packaging, a large spill is unlikely. For a small spill, cordon off the area and contain and absorb with an inert material or cloth. Dispose of waste in a closed, labelled container in accordance with local, state and Commonwealth laws. Typical disposal is to wrap the empty aerosol container in several layers of newspaper and dispose of in the garbage. If a large number of cans have burst/punctured, approach the area cautiously and remove all unnecessary personnel from the area. Allow the propellant to evaporate to the atmosphere. When safe, absorb spillage with an inert material, scoop up with non-sparking tools and place into suitably labelled drum for disposal in a suitable chemical dump. Do not puncture or incinerate cans. Do not empty aerosol cans into drains or empty the contents into the environment. Empty aerosol cans are recyclable at an appropriate metal recycling collection point.
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### SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling	Observe precautions stated on product label, and follow industry safety regulations. Eating and smoking should be prohibited where the preparation is used. Use with caution around heat, sparks, pilot lights, static electricity and open flame. Do not spray on or near a naked flame and incandescent material or hot surface. Use in a well ventilated area.
Conditions for Safe Storage	Store indoors in a cool, dry, well-ventilated area. Avoid storage at temperatures higher than 40°C and keep away from heat, sparks, open flame, static electricity, pilot lights etc. Store away from strong oxidising agents.

### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards	There is no established exposure standard for this mixture. The exposure standards for individual ingredients follow: Refined mineral oil mist TWA - 5mg/m <sup>3</sup> Toluene TWA – 50ppm (191mg/ m <sup>3</sup> ); STEL – 150ppm (574mg/ m <sup>3</sup> ) Dimethyl ether TWA - 400ppm (760mg/m <sup>3</sup> ); STEL – 500ppm (950 mg/m <sup>3</sup> )
Engineering Controls	Maintain adequate ventilation at all times. General exhaust is usually adequate, although local ventilation is recommended to control exposure from operations that allow the build-up of vapours; if misting is a problem; or in applications where the material is heated, reacted or otherwise changed in a chemical reaction.
Personal Protective Equipment	
Eye/Face Protection	Wear safety glasses with shields or a faceshield to give complete protection to the eyes if the method of use presents the likelihood of eye contact. AS1336 and AS/NZS1337 should be consulted for information on eye protection.
Skin Protection	PVC, neoprene or nitrile rubber gloves should be worn if repeated or prolonged skin contact is likely. Refer to AS/NZS 2161 for information on glove selection. Wear general duty work clothing and shoes. Consult AS2919 for advice.
Respiratory Protection	None required under normal conditions of use. If used in poorly ventilated areas where mists or vapours exceed the exposure standards, an approved organic vapour respirator meeting the requirements outlined in AS/NZS 1715 and AS/NZS 1716 should be used. Filter capacity and respirator type depends on exposure levels.

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### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A gray/silver opaque semi-viscous liquid with hydrocarbon odour
pH	Not applicable/not measurable.
Vapour Pressure	31mm Hg at 25°C
Vapour Density	3 (Air = 1)
Boiling Point	-25°C (dimethyl ether propellant)
Melting Point	Not applicable
Solubility in Water (g/L)	Insoluble
Specific Gravity	1.80 – 1.90 (for liquid concentrate)(Water = 1)
Flashpoint	-41°C (dimethyl ether propellant)
Flashpoint Method	T.C.C.
Flammability Limits	LEL: 0.8%; UEL: 22.7% (v/v)
Autoignition temperature	350°C (dimethyl ether propellant)
% Volatiles	70%

### SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable.
Hazardous Polymerisation	Will not occur.
Conditions/Materials to Avoid	Avoid heat, hot surfaces, sparks, static discharges and open flames. Incompatible with strong oxidising and reducing agents; acids and alkali.
Hazardous Decomposition Products	Organic compounds; oxides of carbon. Under extreme heat and in the presence of oxygen, phosgene gas may be formed.

### SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects	
Acute - Swallowed	Harmful if swallowed - ingestion and subsequent vomiting of this product can lead to aspiration of the product into the lungs that can cause damage. Causes gastrointestinal irritation with possible nausea, vomiting and diarrhoea.
Acute - Eye	May cause irritation seen as tearing, redness, stinging and blurred vision.
Acute - Skin	May cause irritation seen as itching and redness.
Acute - Inhaled	May cause irritation to the nose, throat and respiratory system with effects including headache, dizziness, loss of co-ordination, nausea and nervous system depression.
Chronic	Marked irritation of skin and eyes may be seen upon chronic overexposure. Continual overexposure can lead to liver and kidney damage, and prolonged or repeated deliberate concentrating and inhaling of vapours may result in lung damage. Medical conditions aggravated by exposure are preexisting skin conditions such as dermatitis. The primary route of entry into the body are via inhalation and absorption.
Target Organs	Liver, kidneys, central nervous system.

### SECTION 12 – ECOLOGICAL INFORMATION

No specific toxicology data on this product is available. When used as indicated, no adverse environmental effects are foreseen, although the substance may cause long term adverse effects in the environment and aquatic environment if incorrectly used or disposed of.

### SECTION 13 – DISPOSAL CONSIDERATIONS

Do not incinerate or puncture aerosol cans. If an aerosol can develops a leak, allow to fully discharge before disposal. Prevent disposal in sewers and waterways. Dispose of can in accordance with Commonwealth, State and local government requirements. Empty aerosol containers are normally suitable for disposal in garbage bin and at approved land waste site. Empty cans may also be recycled at an appropriate metal recycling collection point.

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### SECTION 14 – TRANSPORT INFORMATION

UN Number	UN1950
UN Proper Shipping Name	Aerosols.
Transport Hazard Class	ADG Class 2.1 (flammable gas). Incompatible in a placard load with the following: DG Class 1; DG Class 4; DG Class 5; DG Class 7.
Packaging Group	Not applicable.
Hazchem Code	2Y.

### SECTION 15 - REGULATORY INFORMATION



Poisons Schedule: 5

(Harmful if swallowed)



(Flammable gas propellant)

### SECTION 16 – OTHER INFORMATION

Initial 16-heading MSDS.

Since the user's working conditions are not known by the supplier, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified in Section 1 without first obtaining written handling instructions. MANTEK assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such non-recommended use, storage or disposal of the product.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

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