

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

ZENOX COLD GALVANISING ZINC RICH SPRAY

Product name Synonyms

Uses

COLD GALV \bullet COLD GALVANISING ZINC RICH SPRAY \bullet Z019 - PART NUMBER \bullet ZINC \bullet ZINC RICH SPRAY

1.2 Uses and uses advised against

AEROSOL DISPENSED

COLD GALVANISING COMPOUND

1.3 Details of the supplier of the product

Supplier name	ZENOX LUBRICANTS
Address	PO Box 3189, Yokine, WA, 6060, AUSTRALIA
Telephone	1800 4 93669
Email	info@zenox.com.au
Website	http://www.zenox.com.au

1800 4 93669

1.4 Emergency telephone numbers

Emergency

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

Physical Hazards

Aerosols - Flammable: Category 1 Aerosols - Pressurised: Category 1

Health Hazards

Skin Corrosion/Irritation: Category 2 Serious Eye Damage / Eye Irritation: Category 2A Specific Target Organ Toxicity (Single Exposure): Category 3 (Narcotic Effects) Toxic to Reproduction: Category 1A Specific Target Organ Toxicity (Repeated Exposure): Category 2 Repeated exposure may cause skin dryness or cracking.

Environmental Hazards

Not classified as an Environmental Hazard

2.2 GHS Label elements

Signal word DANGER

Pictograms





Hazard statements	
AUH066	Repeated exposure may cause skin dryness or cracking.
H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
Prevention statements	6
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Response statements	
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P321	Specific treatment is advised - see first aid instructions.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Storage statements	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C.
Disposal statements	
P501	Dispose of contents/container in accordance with relevant regulations.

2.3 Other hazards

No information provided.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
NAPHTHA, LOW BOILING POINT NAPHTHA	8030-30-6	232-443-2	>10%
XYLENE	1330-20-7	215-535-7	25 to 50%
BUTANE	106-97-8	203-448-7	<20%
DIMETHYL ETHER	115-10-6	210-871-0	<20%
TOLUENE	108-88-3	203-625-9	<20%
ETHYLBENZENE	100-41-4	202-849-4	<15%
PROPANE	74-98-6	200-827-9	<10%
ZINC POWDER - ZINC DUST (STABILISED)	7440-66-6	231-175-3	Not Available
ADDITIVE(S)	-	-	Not Available

4. FIRST AID MEASURES

4.1 Description of first aid measures

- **Eye** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
- Inhalation If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.
 - If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

ChemAlert.

Skin

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

First aid facilities Eye wash facilities and safety shower should be available.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

5.2 Special hazards arising from the substance or mixture

Extremely flammable aerosol. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Aerosol may explode at temperatures exceeding 50°C. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, etc when handling. Aerosol cans may explode when heated above 50°C.

5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

2Y

- 2 Fine Water Spray.
- Y Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool (< 50°C), dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure aerosol containers/ cans are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for damaged/ leaking containers. Large storage areas should have appropriate fire protection systems.

7.3 Specific end uses

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
ingredient	Kelelelice	ppm	mg/m³	ppm	mg/m³
Butane	SWA [AUS]	800	1900		
Butane	SWA [Proposed]			1000	2370
Dimethyl ether	SWA [AUS]	400	760	500	950
Ethyl benzene	SWA [AUS]	100	434	125	543
Ethyl benzene	SWA [Proposed]	20	87		
Mineral Turpentine	SWA [AUS]		480		
Propane	SWA [AUS]	Asphyxiant			
Toluene	SWA [AUS]	50	191	150	574
Toluene	SWA [Proposed]	20	75		
Xylene	SWA [AUS]	80	350	150	655
Zinc oxide (dust)	SWA [AUS]		10		

Biological limits

Ingredient	Reference	Determinant	Sampling Time	BEI
ETHYLBENZENE	ACGIH BEI	Sum of mandelic acid and phenylglyoxylic acid in urine	End of shift	0.15 g/g creatinine
TOLUENE	ACGIH BEI	o-Cresol in urine (with hydrolysis)	End of shift	0.3 mg/g creatinine
	ACGIH BEI	Toluene in urine	End of shift	0.03 mg/L
	ACGIH BEI	Toluene in blood	Prior to last shift of workweek	0.02 mg/L
XYLENE	ACGIH BEI	Methylhippuric acids in urine	End of shift	1.5 g/g creatinine

8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back.

PPE

Eye / Face	Wear splash-proof goggles.
Hands	Wear PVA or viton® gloves.
Body	When using large quantities or where heavy contamination is likely, wear coveralls.
Respiratory	Where an inhalation risk exists, wear a Type A-Class P1 (Organic gases/vapours and Particulate) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	VISCOUS GREY LIQUID (AEROSOL DISPENSED)
Odour	SLIGHT ODOUR
Flammability	EXTREMELY FLAMMABLE
Flash point	-104°C
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
рН	NOT AVAILABLE
Vapour density	NOT AVAILABLE

9.1 Information on basic physical and chemical properties

Relative density	1.26
Solubility (water)	INSOLUBLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	7.2 %
Lower explosion limit	1.4 %
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization will not occur.

10.4 Conditions to avoid

Avoid shock, friction, heavy impact, heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), heat and ignition sources.

Based on available data, the classification criteria are not met. This product may have the potential to cause

10.6 Hazardous decomposition products

May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
NAPHTHA, LOW BOILING POINT NAPHTHA	> 5000 mg/kg (rat)	> 3000 mg/kg (rabbit)	
XYLENE	> 2000 mg/kg (rat) (AICIS)	> 1700 mg/kg (rabbit)	20 mg/L/4h (rat) (AICIS)
BUTANE	Study not feasible	Study not feasible	658000 mg/m3/4H (rat)
DIMETHYL ETHER			308 g/m³ (rat)
TOLUENE	5580 mg/kg (rat)	5000 mg/kg (rabbit)	25.7 - 30 mg/L/4hrs (rat)
ETHYLBENZENE	3500 mg/kg (rat)	17800 mg/kg (rabbit)	17.8 mg/l/4 hours (rat)
PROPANE	Study not feasible	Study not feasible	> 800000 ppm/15M (rat)
ZINC POWDER - ZINC DUST (STABILISED)	> 2,000 mg/kg (rat)		> 5.41 mg/l/4hrs (rat)
Skin Contact may result in drying	Contact may result in drying and defatting of the skin, irritation, rash and dermatitis.		
Eye Contact may result in irritation	Contact may result in irritation, lacrimation, pain and redness.		

adverse health effects if intentionally misused (e.g. deliberately inhaling contents).

Sensitisation Not classified as causing skin or respiratory sensitisation.

Mutagenicity Insufficient data available to classify as a mutagen.

Carcinogenicity Insufficient data available to classify as a carcinogen.

Reproductive Over exposure to toluene may damage fertility or the unborn child.

STOT - single Over exposure may result in irritation of the nose and throat, coughing, nausea and headache. High level exposure may result in dizziness, drowsiness, breathing difficulties and unconsciousness.

 exposure
 STOT - repeated exposure to toluene may result in central nervous system (CNS), liver and kidney damage.

 exposure
 Aspiration

 Ingestion is considered unlikely due to product form. However, if liquid component is ingested, aspiration into the lungs may cause chemical pneumonitis and pulmonary oedema.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information provided.

12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

12.5 Other adverse effects

If aromatic hydrocarbons are released to soil, they will evaporate from near-surface soil & leach to groundwater. Biodegradation occurs in soil & groundwater but may be slow, especially at high concentrations, which can be toxic to microorganisms. Will exist largely as vapour in air. Half life in atmosphere depends on particular hydrocarbon (eg 1-2 days (xylene); 3 hrs-1 day (toluene)).

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal For small amounts, absorb contents with sand or similar and dispose of to an approved landfill site. Do not puncture or incinerate aerosol cans. Contact the manufacturer/supplier for additional information (if required).

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	1950	1950	1950
14.2 Proper Shipping Name	AEROSOLS	AEROSOLS	AEROSOLS
14.3 Transport hazard class	2.1	2.1	2.1
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

No information provided.

14.6 Special precautions for user

Hazchem code	2Y
GTEPG	2D1
EmS	F-D, S-U

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals) All components are listed on AIIC, or are exempt.

16. OTHER INFORMATION

Additional information	AEROSOL CANS may explode at temperatures approaching 50°C.		
	The recommon only. Factors product conc	PROTECTIVE EQUIPMENT GUIDELINES: endation for protective equipment contained within this report is provided as a guide such as form of product, method of application, working environment, quantity used, entration and the availability of engineering controls should be considered before final personal protective equipment is made.	
	It should be including: for measures; p prepare a re	FECTS FROM EXPOSURE: noted that the effects from exposure to this product will depend on several factors m of product; frequency and duration of use; quantity used; effectiveness of control rotective equipment used and method of application. Given that it is impractical to port which would encompass all possible scenarios, it is anticipated that users will sks and apply control methods where appropriate.	
Abbreviations	ACGIH CAS #	American Conference of Governmental Industrial Hygienists Chemical Abstract Service number - used to uniquely identify chemical compounds	
	CNS	Central Nervous System	
	EC No.	EC No - European Community Number	
	EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)	
	GHS	Globally Harmonized System	
	GTEPG	Group Text Emergency Procedure Guide	
	IARC	International Agency for Research on Cancer	
	LC50	Lethal Concentration, 50% / Median Lethal Concentration	
	LD50	Lethal Dose, 50% / Median Lethal Dose	
	mg/m³	Milligrams per Cubic Metre	
	OEL	Occupational Exposure Limit	
	рН	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).	
	ppm	Parts Per Million	
	STEL	Short-Term Exposure Limit	
	STOT-RE	Specific target organ toxicity (repeated exposure)	
	STOT-SE	Specific target organ toxicity (single exposure)	
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons	
	SWA	Safe Work Australia	
	TLV	Threshold Limit Value	
	TWA	Time Weighted Average	
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	manufacturer the current st at the time c	on information concerning the product which has been provided to RMT by the r, importer or supplier or obtained from third party sources and is believed to represent tate of knowledge as to the appropriate safety and handling precautions for the product of issue. Further clarification regarding any aspect of the product should be obtained the manufacturer, importer or supplier.	
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