



# SAFETY DATA SHEET

## Section 1: Identification of the Substance/Mixture and of the Supplier

**Product Name:** SOLDERING FLUX  
**Proper Shipping Name** Zinc chloride solution  
**Recommended use:** Soldering Flux  
**Company Details** Marketing Chemicals Ltd  
**Address:** 7/343 Church Street , Penrose,  
Auckland. New Zealand  
**Telephone:** +64 9 634 3862 [8.00 am to 4.30pm – Monday to Friday]  
**Fax:** +64 9 634 3864  
**Emergency Telephone:** +64 274 736008(24 hours)  
National Poison Centre(24 hours): 0800 POISON [ 764 766]  
**Date of preparation** 9 October 2008

## Section 2: Hazard Identification



### DANGER:

- Toxic if swallowed.
- Causes severe skin burns and eye damage.
- Very toxic to aquatic life with long lasting effects.

The HSNO Approval Number for this Group Standard is HSR002615

### Prevention:

- Keep out of reach of children
- Read label before use.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Do not breathe dust/vapours/spray.
- Wear protective gloves and eye/face protection.
- Avoid release to the environment.

## Section 3: Composition/Information on Ingredients

Name	% by Wt.	CAS Number
Zinc Chloride	>60.0	7646-85-7
Water	<40.0	7732-18-5

## Section 4: First Aid Measures

<b>Eyes:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician
<b>Skin:</b>	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician
<b>Ingestion:</b>	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
<b>Inhalation:</b>	If medical advice is needed, have product container or label at hand. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

For Further Information Telephone (24 Hours)The National Poison Centre: 0800 Poison [764 766]

## Section 5: Fire Fighting Measures

<b>Flash Point:</b>	Not Available
<b>Auto ignition Temperature:</b>	Not Available
<b>Flammable Limits in Air % by Volume:</b>	Not Available
<b>Extinguishing Media:</b>	
<b>Fire Fighting Instructions:</b>	
<b>Unusual Fire and Explosion Hazards:</b>	When heated to decomposition, it will emit toxic fumes of chlorine and zinc oxide

## Section 6: Accidental Release Measures

Collect spillage Do not release into waterways.

## Section 7: Handling And Storage

<b>Handling &amp; Storage</b>	Store locked up. Protect from physical damage. Clean up all spills immediately to prevent secondary accidents.
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## Section 8: Exposure Controls/Personal Protection

<b>Engineering Controls:</b>	General (mechanical) room ventilation is considered satisfactory in enclosed spaces.
<b>Eye / Face Protection:</b>	Safety Glasses/Full face masks
<b>Body Protection:</b>	PVC-coated gloves. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn.
<b>Respiratory Protection:</b>	
<b>Exposure Limits:</b>	Not available

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## Section 9: Physical And Chemical Properties

Appearance	Liquid
Specific Gravity	1.2
Vapour Pressure	Not available
Vapour Density	Not available
Solubility in water	Soluble
Evaporation Rate	Not available
pH	4 (Aqueous Solution)

## Section 10: Stability And Reactivity

<b>Stability of the Substance:</b>	Stable under normal conditions
<b>Conditions to avoid:</b>	
<b>Materials to avoid:</b>	Oxidising agents
<b>Hazardous Decomposition Products:</b>	When heated to decomposition, it emits toxic fumes of chlorine and zinc oxide.
<b>Conditions Contributing to Hazardous Polymerization</b>	

## Section 11: Toxicological Information

<b>Eyes:</b>	REMARK: Corrosive to the eyes. (ZINC CHLORIDE ICSC: 1064 Date of peer-review: March 2002) REFERENCE SOURCE: [INCHEM]
<b>Skin:</b>	if when applied to healthy intact animal skin, full thickness destruction of skin tissue occurs as a result of up to four hours exposure, or if this result can be predicted
<b>Ingestion:</b>	SPECIES: Guinea pig ;ENDPOINT: LD50; VALUE: 200 mg/kg/bw REFERENCE SOURCE: Th. Goldschmidt AG Essen Fopod Res., Vol.7, Seite 313 (1942) [IUCLID 2000]
<b>Inhalation:</b>	

## Section 12: Ecological Information

SPECIES: *Oncorhynchus mykiss*; TYPE OF EXPOSURE: Flow through ; DURATION: 96 h

ENDPOINT: LC50; VALUE: 66 ug/l (= 0.066 mg/l)

REFERENCE SOURCE: Ref No: 2725. Author(s): Cusimano, R.F., D.F. Brakke, and G.A. Chapman

Publication Year: 1986, Title: Effects of pH on the Toxicities of Cadmium, Copper, and Zinc to Steelhead Trout (*Salmo gairdneri*, *Can.J.Fish.Aquat.Sci.* 43(8):1497-1503. [ECOTOX]

Biocumulative: Yes

Rapidly Degradable: Yes

Type:

Inoculum: activated sludge, industrial ; Degradation: 80 % after 14 day ;Result: other ;Method: other

Year: ; GLP: no ; Source: Th.Goldschmidt AG ESSEN ;BASF, unver"ffentlicht [Ref.1a] G"ultigkeit: 2

[IUCRID 2000]

## Section 13: Disposal Considerations

Dispose through Licensed Disposal Company

## Section 14: Transport Information



<b>UN No:</b>	1840
<b>Proper Shipping Name:</b>	Zinc chloride solution
<b>Dangerous Goods Class:</b>	8
<b>Subsidiary risk</b>	6.1
<b>Packing Group:</b>	III
<b>Hazchem Code:</b>	2X

## Section 15: Regulatory Information

<b>HSNO Approval No:</b>	HSR002615
<b>Group Standard:</b>	Metal Industry Products (Toxic [6.1], Corrosive)
<b>HSNO Classes:</b>	6.1C, 8.2C, 8.3A, 9.1A, 9.3B

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## Section 16: Other Information

**New Zealand National Poison Information Centre (24 hours): 0800 POISON [764 766]**  
**New Zealand Emergency Services: 111**

**For General Information:** John Crombie, Manager, Marketing Chemicals Ltd,  
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Fax : +64 (09) 634 3864

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End of Safety Data Sheet.