

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: 2 Rymer Place, Mangere Bridge
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 25 October 2014

Section 2: Hazard Identification



DANGER:

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

HSNO Classes: 6.1C (oral, dermal), 8.2C, 8.3A, 9.1A (fish, crustacean, algal), 9.3B

Group Standard: Metal Industry Products (Toxic [6.1], Corrosive)

HSNO Approval No: HSR002615

Prevention Statements:

- 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.

- Wear protective gloves and eye/face protection.
- Avoid breathing vapours/spray.
- In case of inadequate ventilation, wear suitable respiratory protection.
- Avoid release to the environment.

Response Statements

- If medical advice is needed, have product container or label at hand.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- IF ON SKIN: Wash with plenty of soap and water.
- Remove/Take off immediately all contaminated clothing.
- Wash contaminated clothing before reuse.
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- If skin irritation or rash occurs: Get medical advice/attention.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- Immediately call a POISON CENTER or doctor/physician.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Collect spillage.

Storage Statements

- Store locked up.

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

Eyes:	If medical advice is needed, have product container or label at hand. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin:	Wash with plenty of soap and water. 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.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
Inhalation:	If breathing is difficult, remove to fresh air and keep at rest in a position, comfortable for breathing. If experiencing respiratory symptoms: 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

Flash Point:	Not available
Auto ignition Temperature:	Not available
Flammable Limits in Air % by Volume:	Not available
Extinguishing Media:	All
Fire Fighting Instructions:	
Unusual Fire and Explosion Hazards:	Not available

Section 6: Accidental Release Measures

Collect spillage. Do not release into waterways.

Section 7: Handling And Storage

Handling

<u>Storage:</u>	Store locked up in the original container. Protect from physical damage. Clean up all spills immediately to prevent secondary accidents.
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Section 8: Exposure Controls/Personal Protection

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

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

Stability of the Substance:	Stable under general conditions
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Conditions to avoid: Heat
Materials to avoid: Oxidising agents
Hazardous Decomposition Products:
Conditions Contributing to Hazardous Polymerization

Section 11: Toxicological Information

Inhalation: Respiratory sensitizers
SPECIES:
RESULT: In acute cases pulmonary oedema resulting from aspiration, dyspnea and cyanosis due to paralysis of the respiratory muscles, bronchoconstriction, cough can occur.

Ingestion: SPECIES: Guinea pig ENDPOINT: LD50 VALUE: 200 mg/kg/bw

Skin: SPECIES: Rat ;ENDPOINT: LD50;VALUE: 1420 mg/kg

Eye: REMARK: Corrosive to the eyes.

Section 12: Ecological Information

Environmental Precautions:

Ecological Toxicity: SPECIES: Oncorhynchus mykiss; TYPE OF EXPOSURE: Flow through
DURATION: 96 h; ENDPOINT: LC50
VALUE: 66 ug/l (= 0.066 mg/l)
Acute
SPECIES: Moina irrasa; TYPE OF EXPOSURE: Static
DURATION: 48 h; ENDPOINT: LC50;
VALUE: 49.99 ug/l (= 0.0499 mg/l)

Environmental Risk: SPECIES: Selenastrum capricornutum; TYPE OF EXPOSURE: Static
DURATION: 96h; ENDPOINT: EC50
VALUE: 44.7 ug/l (= 0.0447 mg/l)

Section 13: Disposal Considerations

Dispose through Licensed Disposal Company

Section 14: Transport Information



UN No: 1840
Proper Shipping Name: Zinc chloride solution
Dangerous Goods Class: 6.1
Subsidiary risk 8
Packing Group: I
Hazchem Code: 2Z

Section 15: Regulatory Information

HSNO Approval No: HSR002595
Group Standard: Metal Industry Products (Toxic [6.1], Corrosive)
HSNO Classes: 6.1C (oral, dermal), 8.2C, 8.3A, 9.1A (fish, crustacean, algal), 9.3B

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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Marketing Chemicals Ltd has taken care in compiling this information. No liability is accepted directly or indirectly from its application as conditions of use are outside the Company's control. End users are obliged to conform to relevant Local Government regulations.

End of Safety Data Sheet.