

Head Office: 9 Kidson Place, Stoke, Nelson, New Zealand 7011 P.O Box 2111, Stoke, Nelson, New Zealand 7041 Telephone: 0800 699 353

MATERIAL SAFETY DATA SHEET

Product name: Promax General Purpose Liquid Soldering Flux 100ml

Date of Issue: Ref. No: 13/07/2017 TM00116

Section 1 Product & Company Identification

Product Name:

Other Names:

Use:

Supplier / Manufacturer

Name: Address: Telephone No: Emergency No: Promax General Purpose Liquid Soldering Flux 100ml General purpose soldering Fluid

Proline Welding Supplies 9 Kidson Place, Stoke, Nelson 7011

0800 699 353

Section 2 Hazard(s) Identification

Hazard Classification according to Worksafe New Zealand

<u>Risk Phrase(s)</u> :	R22 R34 R36/38 R41	Harmful if swallowed. Causes burns. Irritating to skin & eyes. Risk of serious damage to eyes.
<u>Safety Phrase(s):</u>	S1/2 S7 S13 S24/25 S26 S28 S45 S62	Keep locked up and out of reach of children. Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin & eyes. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. In the event of contact with skin wash immediately with plenty of water. In case of an accident or you feeling unwell, contact a doctor or the Poison Line immediately (show label where possible). If swallowed do not induce vomiting: seek medical advice immediately and show label off the container.

Section 3 Composition & Information on Ingredients

Chemical Entity	Proportion	CAS Number
Zinc Chloride	30-60 %	7646-85-7
Ammonium Chloride	<10 %	12125-02-9
Hydrochloric Acid	<2 %	7647-01-0
Water	Balance	7732-18-5

Section 4 First Aid Measures

Description of necessary measures according to route of exposure

Ingestion:Do NOT induce vomiting. If poisoning occurs, contact doctor or Poisons Information
Centre. If conscious, give water (or milk) to rinse out mouth and drink. Provide liquid
slowly but as much as casualty will drink.Eye:If contact with eyes occurs, hold eyes open, flood with water for at least 15 minutes and
see a doctor without delay.Skin:Immediately wash away with plenty of soap and water. Remove ALL contaminated
clothing. If swelling, redness, blistering or irritation occurs seek medical advice.Inhaled:First aid is unlikely to be required from normal use. However, if combustion products are
inhaled remove to fresh air. Keep warm and rested. If breathing is shallow or has
stopped, ensure clear airway and apply resuscitation. Seek medical advice.

Medical attention and Special Treatment

Treat symptomatically. For ingestion consider gastric lavage

Medical Conditions aggravated caused by exposure

No chronic effects have been reported in humans from normal industrial use. neither zinc nor ammonium chloride has been listed by the International Agency for Research on cancer as either human or animal carcinogens.

Section 5 Fire Fighting Measures		
Extinguishing Media:	Water spray or fog, Foam, Dry chemical powder or Carbon Dioxide.	
Hazards from combustion Products:	Not combustible. However, heating to decomposition produces toxic fumes of Hydrogen Chloride, Ammonia, Nitrogen Oxides and Zinc Oxides.	
Special Protective Equipment:	Fire fighters should wear self-contained breathing apparatus if risk of exposure to products of decomposition.	
Additional information:	Fire fighting procedure- Alert Fire Brigade, tell them location and nature of hazard. Do not approach containers suspected to be hot. Cool fire exposed containers with spray from a protected location. If safe to do so, remove containers from path of fire.	
HAZCHEM CODE:	2X	

Section 6 Spillage, accidental release measures

Emergency Procedure:	Personnel involved in the clean-up should wear full protective clothing.	
Methods and Materials for containment and Clean-ups Procedures		
Small Spills / Leaks:	Wash with plenty of water.	
Large Spills:	Environment hazard; contain spillage. Advise the Environment Protection Authority. Wearing protective clothing, absorb spill with inert material such as sand or vermiculite. Collect residues and seal in labelled drum for disposal. Spread area with lime and leave for at least 1 hour before washing. Wash area down with large quantities of water and prevent run off into drains or waterways.	

For Personal Protective Equipment (PPE) – refer to section 8 of this MSDS (if required)

Section 7 Handling and storage

Store and handle in accordance with the requirements of the Dangerous Goods (Storage & handling) Regulations for Class 8 Substances (Part 10). This material is a Schedule 6 Poison and must be packaged and labelled in accordance with the Hazardous Substances (Identification) Regulations 2001 in New Zealand.

Precautions for Safe Handling:	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling.
Conditions for Safe Storage:	Store in a cool, dry, well ventilated place.

Section 8 Exposure controls & personal protection

National Exposure Standards - as regulated by: WORKSAFE NEW ZEALAND

Chemical Names	ES – TWA	ES – STEL	ES – Peak
Zinc Chloride (fume):	1 mg/m³	2 mg/m ³	
Ammonium Chloride (fume):	10 mg/m ³	20 mg/m ³	
Hydrogen chloride:	5 ppm		Peak Limitation
Biological Limit Values:	No Data available		
Engineering Controls:	If irritating fumes of hydrogen chloride are given off, use with local exhaust ventilation.		
Personal Protective Equipment (PPE)			
Eve / Face Protection	Wear chemical googles or full f	ace mask Contact lense	s pose a special

Eye / Face Protection	Wear chemical goggles or full face mask. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.
Skin Protection:	Wear safety footwear, overalls and PVC Gloves and aprons.
Respiratory Protection:	If inhalation risk remains (this is unlikely), wear a particulate/ gas respirator complying with AS1716. Use in accordance with AS1715.

Section 9 Physical and Chemical properties

Appearance:	Liquid
Colour:	Colourless
Odour:	Nil
Vapour Pressure:	N/A
Vapour Density:	N/A
Boiling point/ range:	100ºc - 105ºc
Melting point:	N/A
Solubility in water:	N/A
Specific gravity:	1.32
Flash point:	N/A
pH:	3.9

For Flammable Limits (as a percentage volume in air)

Upper Explosion Limit:N/AIgnition Temperature:N/ASpecific Heat Value:N/AParticle Size:N/AVolatile Organic Compound (VOC) content:N/AEvaporation Rate:N/AViscosity:N/APercent Volatile:N/AOctanol/Water partition coefficient:N/ASaturated Vapour Concentration:N/AAdditional Characteristics:N/AFlame Propagation/ Burning Rate of Solid Materials:N/AProperties of material that may contribute orN/AInitiate to fire intensity:N/APotential for Dust Explosion:N/AReactions that Release Flammable Gases:N/ANon-Flammables that could contribute unusualN/AHazards to a fire:N/AAdditional InformationN/AMolecular Weight:N/A	Lower Explosion Limit:	N/A
Specific Heat Value:N/AParticle Size:N/AVolatile Organic Compound (VOC) content:N/AEvaporation Rate:N/AViscosity:N/APercent Volatile:N/AOctanol/Water partition coefficient:N/ASaturated Vapour Concentration:N/AAdditional Characteristics:N/AFlame Propagation/ Burning Rate of Solid Materials:N/AProperties of material that may contribute orN/AInitiate to fire intensity:N/APotential for Dust Explosion:N/AReactions that Release Flammable Gases:N/ANon-Flammables that could contribute unusualN/AHazards to a fire:N/ARelease of invisible Flammable Vapour and Gases:NilDecomposition Temperature:N/AAdditional InformationN/A		
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Additional Characteristics:N/AFlame Propagation/ Burning Rate of Solid Materials:N/AProperties of material that may contribute orN/AInitiate to fire intensity:N/APotential for Dust Explosion:N/AReactions that Release Flammable Gases:N/AFast or Intensely Burning Characteristics:N/ANon-Flammables that could contribute unusualN/AHazards to a fire:N/ARelease of invisible Flammable Vapour and Gases:NilDecomposition Temperature:N/AAdditional InformationN/A		
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Fast or Intensely Burning Characteristics:N/ANon-Flammables that could contribute unusualN/AHazards to a fire:N/ARelease of invisible Flammable Vapour and Gases:NilDecomposition Temperature:N/AAdditional InformationN/AMolecular Weight:N/A	Potential for Dust Explosion:	N/A
Non-Flammables that could contribute unusual Hazards to a fire:N/ARelease of invisible Flammable Vapour and Gases:NilDecomposition Temperature:N/AAdditional InformationN/AMolecular Weight:N/A	Reactions that Release Flammable Gases:	N/A
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Molecular Weight: N/A		N/A
Molecular Weight: N/A		
	Additional Information	
•	Molecular Weight:	N/A
	Solubility:	N/A

Section 10 Stability and reactivity

Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Reactions: Product is stable under normal conditions of use and storage. Avoid excessive heat and direct sunlight. Incompatible with oxidising agents, acids and alkali.

No data available. No data available.

Section 11 Toxicological Information

Toxicity Data:	For Zinc chloride acute oral LD50 (rat): 350mg/kg.
Ingestion:	The liquid is corrosive and harmful to the gastro-intestinal tract. An unlikely route of entry from industrial use.
Eye:	The liquid is irritating and corrosive to the eye and is capable of causing severe damage with loss of sight. On eye contact this product will cause tearing, stinging, blurred vision and redness.
Skin:	Corrosive and capable of causing burns to the skin with prolonged contact.
Inhaled:	Not an inhalation risk at normal temperatures. At soldering temperatures minor respiratory tract irritation may occur due to hydrochloric acid fumes.

Section 12 Ecological Information

Eco-toxicity:	Toxic to marine organisms and expected to be fatal unless concentration is low.	
Persistence / degradability: Mobility: Environmental Fate: Bio-accumulative Potential:	No data available. No data available. No data available. No data available	
Section 13 Disposal Considerations		
Disposal Methods:	Dispose of in accordance with the local and state regulations at an approved	

 Disposal Methods:
 Dispose of in accordance with the local and state regulations at an approved waste facility.

 Special Precautions for Landfill Or Incineration:
 No data available.

The disposal Considerations mentioned above applies to the material / product described in this MSDS as manufactured. Further processing, use, or contamination of the product may make the information in appropriate, inaccurate or incomplete.

Section 14 Transportation Information

UN Number: UN Shipping Name: Dangerous Goods Class: Packing Group Special Precautions / Requirements HAZCHEM Code: 1760 CORROSIVE LIQUID, N.O.S. 8 III Handle with care 2X

Section 15 Regulatory Information

Poison Schedule Number:	1760
EPG:	8A1
AICS Name:	N/A
NZ Toxic Substance:	N/A

Section 16 Other Information

Last revision 17/06/2016 Next revision 17/06/2021

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