



# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 23.05.2014

Revision: 23.05.2014

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name: PLUMBING FLUX - 211545****Recommended Use of the Chemical and Restriction on Use:** Soft soldering flux**Details of Manufacturer or Importer:**Primus Australia Pty Ltd  
3/20 Enterprise Drive  
Bundoora VIC 3083**Phone Number:** 03 9468 4400**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**

corrosion

Eye Dam. 1      H318 Causes serious eye damage.



environment

Aquatic Chronic 2    H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2      H315 Causes skin irritation.

**Label Elements****Signal Word** Danger**Hazard Statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P280      Wear protective gloves/protective clothing/eye protection/face protection.

P273      Avoid release to the environment.

P264      Wash hands thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321      Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P391      Collect spillage.

P302+P352 IF ON SKIN: Wash with plenty of water.

P310      Immediately call a POISON CENTER/doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501      Dispose of contents/container in accordance with local/regional/national regulations.

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## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

7646-85-7	zinc chloride	1-3%
	⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	

**Additional information:** Unlisted percentages are non-hazardous stabilizers, and water.

## 4 . FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. Rinse mouth with water. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

## 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Dry chemical, carbon dioxide and foam.**Specific Hazards Arising from the Chemical:** Will release small amounts of HCl upon decomposition.**Special Protective Equipment and Precautions for Fire Fighters:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

## 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved respirator if needed, safety glasses, rubber gloves, protective clothing (overall), rubber apron and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so. Neutralize with soda ash or sodium bicarbonate, dilute with water and dispose of in accordance with regulations.

## 7 . HANDLING AND STORAGE

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and

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other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from excessive heat or cold. Keep away from alkaline, strong oxidizing or reducing materials, cyanides or combustible materials.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:****7646-85-7 zinc chloride**

NES	STEL: 2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>
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**Engineering Controls:**

Maintain air concentration below occupational exposure standards, providing adequate ventilation. Use explosion-proof ventilating equipment.

**Personal Protective Equipment (PPE):****Respiratory Protection:**

Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Rubber gloves, protective clothing (overall), rubber apron and safety boots. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

**Eye and Face Protection:**

Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Paste
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	Not determined.
<b>pH-Value:</b>	Not applicable
<b>Melting point/Melting range:</b>	0 °C
<b>Initial Boiling Point/Boiling Range:</b>	104 °C
<b>Flash Point:</b>	Not applicable.
<b>Flammability:</b>	Not applicable.
<b>Auto-ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	Not applicable
<b>Relative Density at 20 °C:</b>	0.97 g/cm <sup>3</sup>
<b>Vapour Density:</b>	Not applicable
<b>Evaporation Rate at 20 °C:</b>	0.6
<b>Solubility in Water:</b>	Completely soluble

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## 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Excessive heat or cold.

**Incompatible Materials:**

Metals, alkaline, strong oxidizing or reducing materials, cyanides and combustible materials.

**Hazardous Decomposition Products:** HCl, zinc chloride, zinc oxide and ammonium.

## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:**

**LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:**

**7646-85-7 zinc chloride**

Oral	LD <sub>50</sub>	350 mg/kg (rat)
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**Acute Health Effects**

**Inhalation:** May causes respiratory irritation.

**Skin:** May cause skin irritation.

**Eye:** Causes serious eye damage.

**Ingestion:** May cause gastro intestinal irritation, abdominal pain and vomiting.

**Skin Corrosion / Irritation:** Causes skin irritation.

**Serious Eye Damage / Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitisation:** No sensitising effects known.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:** No information available

**Existing Conditions Aggravated by Exposure:** No information available

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:** Toxic to aquatic life with long lasting effects.

**Aquatic toxicity:**

**7646-85-7 zinc chloride**

EC50 / 48 h	0.2 mg/L (daphnia)
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LC50 / 96 h	0.4 - 2.2 mg/L (fish)
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**Persistence and Degradability:** No information available

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**Bioaccumulative Potential:** No information available**Mobility in Soil:** No information available

## 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 . TRANSPORT INFORMATION

<b>UN Number</b>	UN3082
<b>ADG, IMDG, IATA</b>	
<b>Proper Shipping Name</b>	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC CHLORIDE)
<b>ADG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC CHLORIDE), MARINE POLLUTANT
<b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC CHLORIDE)
<b>IATA</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC CHLORIDE)
<b>Dangerous Goods Class</b>	
<b>ADG Class:</b>	9 (M6) Miscellaneous dangerous substances and articles.
<b>IMDG Class:</b>	9 Miscellaneous dangerous substances and articles.
<b>Packing Group:</b>	
<b>ADG, IMDG, IATA</b>	III
<b>Marine pollutant:</b>	Yes Symbol (fish and tree)
<b>EMS Number:</b>	F-A,S-F
<b>Hazchem Code:</b>	•3Z
<b>Special Provisions:</b>	179, 274, 331, 335, AU01
<b>Limited Quantities:</b>	5L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC03, LP01
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	PP1
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T4
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP1, TP29

## 15 . REGULATORY INFORMATION

**Australian Inventory of Chemical Substances:**

7646-85-7 | zinc chloride

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Not assigned - less than 5% of zinc chloride.

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## 16 . OTHER INFORMATION

**Creation Date:** 23.05.2014**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

**Disclaimer**

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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