



1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: Zinc Pro Flux
USE: An aqueous acid solution of zinc and ammonium chlorides, used as a solder flux.
SUPPLIER: Premium Roofing Products
 Unit 2, Mill River Trading Estate
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2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	EC N°	CAS N°	CONTENTS	SYMBOL LETTERS	R PHRASE N°
Zinc chloride	231-592-0	7646-85-7	<30%	C, N	34, 50/53
Ammonium chloride	231-595-7	12125-02-9	<5%	Xn	22, 36
Hydrochloric acid	235-186-4	7647-01-0	<10%	Xi	36/37/38

3. HAZARDS IDENTIFICATION

MAIN HAZARDS: Product is corrosive and can cause burns. Irritates eyes and skin.
OTHER HAZARDS: Zinc chloride is very toxic to aquatic organisms

4 FIRST-AID MEASURES

INHALATION: Move exposed person to fresh air at once. Get medical attention if any discomfort continues.
INGESTION: Do not induce vomiting. If person is conscious, rinse mouth thoroughly and encourage the drinking of large quantity of water. Get medical attention.
SKIN CONTACT: Remove all contaminated clothing and footwear immediately, unless it is stuck to the skin. Wash the affected skin immediately with soap and water. Get medical if irritation persists.
EYE CONTACT: Make sure that any contact lenses are removed from the eyes before rinsing. Promptly wash eyes with plenty of water for at least 15 minutes. Get medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: The product is non-flammable.
EXPOSURE HAZARDS: During a fire, hazardous vapours are likely to occur.
PROTECTION OF FIRE-FIGHTERS: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid skin and eye contact (see Section 8).
ENVIRONMENTAL PRECAUTION: Keep away from drains and rivers.
CLEAN-UP PROCEDURES: Absorb into vermiculite, dry earth or sand and dispose of as special waste.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Avoid skin or eye contact. Avoid breathing vapours. Observe normal hygiene precautions when handling product.
STORAGE PRECAUTIONS: Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUES:	INGREDIENT	CAS N°	LTEL (8 hrs TWA)	STEL (15 min)
	Zinc chloride (fume)	7646-85-7	1 mg.m ⁻³	2 mg.m ⁻³
	Ammonium chloride	12125-02-9	-	-
	Hydrochloric acid	7647-01-0	2 mg.m ⁻³	8 mg.m ⁻³

VENTILATION: Provide adequate general and local exhaust ventilation.

RESPIRATORY PROTECTION: Avoid direct inhalation, otherwise no special measures necessary.

HAND PROTECTION: Use protective gloves.

EYE PROTECTION: Use approved safety goggles or face shield.

SKIN PROTECTION: Wear suitable protective clothing. Observe good standards of personal hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid	ODOUR:	Weak
BOILING POINT:	>100°C	FLASH POINT:	>130°C
RELATIVE DENSITY:	1.3 (approx) @ 20°C	SOLUBILITY (in water):	Soluble

10 STABILITY AND REACTIVITY

STABILITY:	Stable under normal conditions. Stable at room temperature.
CONDITIONS TO AVOID:	Avoid excess heat.
MATERIALS TO AVOID:	Avoid contact with oxidising agents and alkalis.
HAZARDOUS DECOMPOSITION PRODUCTS:	Ammonia, hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

INHALATION:	May cause irritation to the respiratory system.
INGESTION:	May cause internal burns if taken by mouth.
SKIN CONTACT:	May cause burns
EYE CONTACT:	May cause burns.

12. ECOLOGICAL INFORMATION

MOBILITY:	Readily absorbed into soil. Soluble in water.
PERSISTENCE AND DEGRADABILITY:	Not biodegradable.
BIOACCUMULATIVE POTENTIAL:	Unlikely to bio-accumulate on the basis of water solubility.
OTHER ADVERSE EFFECTS:	Harmful effect due to pH shift. Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES:	Dispose of material as special waste.
CONTAMINATED PACKAGING:	Rinse out empty containers thoroughly before returning for recycling.

14. TRANSPORT INFORMATION:

REGULATIONS:				
ADR/RID (road/rail):	UN N°: 1840	CLASS: 8	PACKAGING GROUP: III	
	PRODUCT DESCRIPTION: Zinc chloride solution			

15. REGULATORY INFORMATION

LABEL FOR SUPPLY:

C: Corrosive



N: Dangerous to the environment

RISK PHRASES:

R34 Causes burns.
 R50/53 Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S45 In case of accident or if you feel unwell, seek medical attention immediately (show the label where possible).
 S60 This material and its container must be disposed of as hazardous waste.
 S61 Avoid release to the environment. Refer to Special Instructions/Safety Data Sheets.

EC DIRECTIVES:

System of Specific Information relating to Dangerous Preparations; 91/155.

STATUTORY INSTRUMENT:

Chemicals (Hazards Information and Packaging) Regulations 2002; SI 2002/1689.
 Control of Substances Hazardous to Health 1999; SI 1000/437.

APPROVED CODES OF PRACTICE:

Classification and Labelling of Substances and Preparations Dangerous for Supply
 The Compilation of Safety Data Sheets (3rd Edition)

GUIDANCE:

Occupational Exposure Limits EH40
 COSHH Essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations; HSG193
 CHIP for Everyone HSG108

16. OTHER INFORMATION**TEXT OF RISK PHRASES USED IN SECTION 2:**

R22 Harmful if swallowed.
 R34 Causes burns.
 R36 Irritating to eyes.
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R50/53 Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

The contents of this Safety Data Sheet are not warranted to be accurate or complete and the Company can accept no liability to any customer, their employees or any other person whatsoever for any loss, injury or damage, whether direct or consequential, which may be caused by any error or omission from this sheet, whether such error or omission is negligent or otherwise.
