



## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**PRODUCT NAME:** Stainless Steel Flux

**USE:** A gel containing orthophosphoric acid, used as a solder flux for application with stainless steel.

**SUPPLIER** Premium Roofing Products  
Unit 2, Mill River Trading Estate  
Suez Road  
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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	EC N°	CAS N°	CONTENTS	SYMBOL LETTERS	R PHRASE N°
Orthophosphoric acid	231-791-2	7664-38-4	50%	C	34

## 3. HAZARDS IDENTIFICATION

**MAIN HAZARDS:** Product is corrosive and can cause burns. Irritates eyes and skin.

**OTHER HAZARDS:** May cause cyanosis with bluish skin.

## 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 30 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. Vapours may be heavier than air.

**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 chemical 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. Unsuitable for storage in metal containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUES:	INGREDIENT	CAS N°	LTEL (8 hrs TWA)	STEL (15 min)
	Phosphoric acid	7664-38-2	1 mg.m <sup>-3</sup>	3 mg.m <sup>-3</sup>
	Stannous sulphate	7488-55-3	2 mg.m <sup>-3</sup> as tin	-

**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

<b>APPEARANCE:</b>	Gel	<b>ODOUR:</b>	None
<b>BOILING POINT:</b>	Not available	<b>pH:</b>	1.3
<b>RELATIVE DENSITY:</b>	Not available	<b>SOLUBILITY (in water):</b>	Miscible in all proportions.

## 10 STABILITY AND REACTIVITY

<b>STABILITY:</b>	Stable under normal conditions. Stable at room temperature.
<b>CONDITIONS TO AVOID:</b>	Avoid excess heat.
<b>MATERIALS TO AVOID:</b>	Avoid contact with strong bases, finely divided metals, organic peroxides, cyanides, halogenated organics, mercaptans and other organic sulphides, nitromethane, sodium tetrahydroborate, sulphates, mineral acids, bleaching powder, aldehydes, strong alkalis, chlorides and nickel carbonate.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Phosphine, oxides of phosphorus. Reacts with chlorides + stainless steel to form explosive hydrogen gas.

## 11. TOXICOLOGICAL INFORMATION

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

Not listed as being carcinogenic, mutagenic or as having teratogenic effects.

## 12. ECOLOGICAL INFORMATION

<b>MOBILITY:</b>	Readily absorbed into soil. Soluble in water.
<b>PERSISTENCE AND DEGRADABILITY:</b>	95% biodegradable.
<b>BIOACCUMULATIVE POTENTIAL:</b>	Unlikely to bio-accumulate on the basis of water solubility.
<b>OTHER ADVERSE EFFECTS:</b>	Harmful effect due to pH shift

## 13. DISPOSAL CONSIDERATIONS

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

## 14. TRANSPORT INFORMATION:

<b>REGULATIONS:</b>				
<b>ADR/RID (road/rail):</b>	UN N°: 1805	CLASS: 8	PACKAGING GROUP: III	
	PRODUCT DESCRIPTION: Phosphoric acid			

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**15. REGULATORY INFORMATION**

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**LABEL FOR SUPPLY:**

C: Corrosive

<b>RISK PHRASES:</b>	R34	Causes burns.
<b>SAFETY PHRASES:</b>	S1/2	Keep locked up and out of the reach of children
	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).
<b>EC DIRECTIVES:</b>	System of Specific Information relating to Dangerous Preparations; 91/155.	
<b>STATUTORY INSTRUMENT:</b>	Chemicals (Hazards Information and Packaging) Regulations 2002; SI 2002/1689. Control of Substances Hazardous to Health 1999; SI 1000/437.	
<b>APPROVED CODES OF PRACTICE:</b>	Classification and Labelling of Substances and Preparations Dangerous for Supply The Compilation of Safety Data Sheets (3 <sup>rd</sup> Edition)	
<b>GUIDANCE:</b>	Occupational Exposure Limits EH40 COSHH Essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations; HSG193 CHIP for Everyone HSG108	

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**16. OTHER INFORMATION**

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**TEXT OF RISK PHRASES USED IN SECTION 2:** R34 Causes burns.

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