

# SAFETY DATA SHEET



## Fluxite Paste

### 1. Identification of the substance/preparation and of the company/undertaking

**Product name** : Fluxite Paste  
**Code** : 20423  
**Head Office** : **Cookson Electronics** **Manufacturer** : Ashford Manufacturing Site  
 Forsyth Road Henwood Industrial Estate  
 Sheerwater Hythe Road  
 Woking Ashford  
 Surrey Kent  
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### 2. Composition/information on ingredients

**Substance/Preparation** : Preparation

Chemical name*	CAS no.	%	EC Number	Classification
<b>Europe</b> Zinc chloride	7646-85-7	10-15	231-592-0	C; R34 N; R50/53
See Section 16 for the full text of the R Phrases declared above				

\* Occupational Exposure Limit(s), if available, are listed in Section 8

### 3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

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**Classification** : C; R34  
N; R51/53  
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#### Effects and symptoms

**Inhalation** : Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Overexposure by inhalation may cause respiratory irritation.

**Ingestion** : May be fatal if swallowed. May cause burns to mouth, throat and stomach.

**Skin contact** : Irritation of the product in case of skin contact: Not available. Sensitization of the product: Not available. Corrosive to skin on contact. Skin contact may produce burns.

**Eye Contact** : Corrosive to eyes.

**Aggravating conditions** : Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection.

### 4. First-aid measures

#### First-Aid measures

**Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention immediately.

**Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

## Fluxite Paste

- Skin contact** : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.
- Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Cold water may be used. Obtain medical attention immediately.

## 5. Fire-fighting measures

### Extinguishing Media

- Suitable** : Not applicable.
- Special fire-fighting procedures** : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

## 6. Accidental release measures

- Personal Precautions** : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
- Environmental precautions and cleanup methods** : Stop leak if without risk. Absorb with dry earth, sand or other noncombustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapour drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

**Note:** See section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Keep container dry. Do not ingest. Do not breathe gas/fumes/vapour/spray. Never add water to this product. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended use** : Use original container.
- Danish Fire Class** : Not applicable.

## 8. Exposure controls/personal protection

- Engineering measures** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.
- Hygiene measures** : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
<b>Europe</b>	
Zinc chloride	<b>ACGIH TLV (United States, 2001).</b> STEL: 2 mg/m <sup>3</sup> 15 minute(s). Form: Fume TWA: 1 mg/m <sup>3</sup> 8 hour(s). Form: Fume
<b>Sweden</b>	
Zinc chloride	<b>AFS (Sweden, 2000).</b> NGV: 1 mg/m <sup>3</sup> 8 hour(s). Form: Dust
<b>Denmark</b>	
Zinc chloride	<b>Arbejdstilsynet (Denmark, 2000).</b> GV: 0.5 mg/m <sup>3</sup> 8 hour(s). GV: 0.5 mg/m <sup>3</sup> 8 hour(s). Form: Fume
<b>Norway</b>	
Zinc chloride	<b>Arbejdstilsynet (Norway, 2001).</b> AN: 1 mg/m <sup>3</sup> 8 hour(s).
<b>France</b>	
Zinc chloride	<b>INRS (France, 1999). Notes: Not Legal</b> VME: 1 mg/m <sup>3</sup> 8 hour(s). Form: Fume
<b>Netherlands</b>	
Zinc chloride	<b>Nationale MAC-lijst (Netherlands, 2001). Notes: Tentative</b> TGG 8 uur: 1 mg/m <sup>3</sup> 8 hour(s). Form: Fume
<b>Germany</b>	
<b>Finland</b>	
Zinc chloride	<b>Työterveyslaitos (Finland, 2001).</b> TWA: 1 mg/m <sup>3</sup> 8 hour(s). Form: Fume
<b>United Kingdom (UK)</b>	

## Fluxite Paste

Zinc chloride

**EH40-OES (United Kingdom (UK), 2002). Notes: OES**

STEL: 2 mg/m<sup>3</sup> 15 minute(s). Form: Fume

TWA: 1 mg/m<sup>3</sup> 8 hour(s). Form: Fume

**Austria**

**Switzerland**

Zinc chloride

**SUVA (Switzerland, 2001). Notes: Not Temporary**

MAK: 1 mg/m<sup>3</sup> 8 hour(s). Form: Dust and fumes

**Belgium**

Zinc chloride

**Lijst Grenswaarden (Belgium, 1998).**

VCD: 2 mg/m<sup>3</sup> 15 minute(s). Form: Fume

VL: 1 mg/m<sup>3</sup> 8 hour(s). Form: Fume

**Spain**

Zinc chloride

**INSHT (Spain, 2001).**

STEL: 2 mg/m<sup>3</sup> 8 hour(s).

TWA: 1 mg/m<sup>3</sup> 8 hour(s).

### Personal protective equipment

**Respiratory system**

: Wear appropriate respirator when ventilation is inadequate.

**Skin and body**

: Full suit.

**Hands**

: Impervious gloves.

**Eyes**

: Face shield.

### Protection based on MAL

: **According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:**

**General:** Gloves must be worn for all work that may result in soiling. Apron/overalls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/overalls/protective clothing as appropriate or as instructed.

MAL-code: 00-4

**Application:** When using scraper or knife, brush, roller, etc. for pre- and post-treatments in a spray booth where the operator is outside the spray zone; and when working in similar new\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new\* booths and cabins with non-atomising guns. When spraying in existing\* spray booths, if the operator is outside the spray zone. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. During non-atomising spraying in existing\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Protective clothing must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone; and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, protective clothing and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

**Caution** The regulations contain other stipulations in addition to the above.

\*See Regulations.

## 9. Physical and chemical properties

**Physical state**

: Liquid.

**Colour**

: Amber.

**Odour**

: Characteristic.

**pH**

: Not available.

**Boiling point**

: The lowest known value is 99.9°C (211.8°F) (water).

**Date of issue**

: 03/11/2003.

Page: 3/6

## Fluxite Paste

<b>Melting point</b>	: May start to solidify at -0.1°C (31.8°F) based on data for: water.
<b>Flash point</b>	: Not applicable.
<b>Explosive properties</b>	: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
<b>Oxidizing properties</b>	: Not available.
<b>Density</b>	: 1 g/cm <sup>3</sup>
<b>Solubility</b>	: Very slightly soluble in cold water, hot water.
<b>Evaporation rate (butyl acetate = 1)</b>	: 0.36 (water) compared to (n-BUTYL ACETATE=1)

## 10. Stability and reactivity

<b>Stability</b>	: The product is stable.
<b>Hazardous decomposition products</b>	:

## 11. Toxicological information

### Acute toxicity

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Zinc chloride	LD50	350 mg/kg	Oral	Rat
	LD50	200 mg/kg	Oral	Guinea pig
	LD50	329 mg/kg	Oral	Mouse

### Local effects

<b>Skin irritation</b>	: Hazardous in case of skin contact (corrosive).
<b>Eye irritation</b>	: Hazardous in case of eye contact (corrosive).
<b>Chronic toxicity</b>	: Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection.

## 12. Ecological information

### Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Zinc chloride	Daphnia magna (EC50)	48 hours	2.8 mg/l
	Oncorhynchus mykiss (LC50)	96 hours	0.066 mg/l
	Daphnia magna (LC50)	96 hours	0.06791 mg/l

## 13. Disposal considerations

<b>Methods of disposal ; Waste of residues ; Contaminated packaging</b>	: Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Waste Classification</b>	: Not applicable.
<b>European Waste Catalogue (EWC)</b>	: Not available.
<b>Hazardous Waste</b>	: The classification of the product may meet the criteria for a hazardous waste

## 14. Transport information

### International transport regulations

<u>Regulatory Information</u>	<u>UN number</u>	<u>Proper shipping name</u>	<u>Class</u>	<u>Packing group</u>	<u>Label</u>	<u>Additional Information</u>
<b>ADR/RID Class</b>	1760	Corrosive liquid, n.o.s. (Zinc chloride)	8	III		<b>Hazard identification number</b> 80 <b>CEFIC Tremcard</b> 80G20
<b>IMDG Class</b>	1760	Corrosive liquid, n.o.s. (Zinc chloride)	6.1	III		<b>Emergency Schedules (EmS)</b> 8-06

**Date of issue** : 03/11/2003.

**Page:** 4/6

## Fluxite Paste

<b>IATA-DGR Class</b>	1760	Corrosive liquid, n.o.s. (Zinc chloride)	6.1	III		-
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## 15. Regulatory information

### EU Regulations

<b>Hazard symbol(s)</b>	:	 
		Corrosive, Dangerous for the environment
<b>Indication of Danger</b>	:	Corrosive, Dangerous for the environment.
<b>Risk Phrases</b>	:	R34- Causes burns. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<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. S29- Do not empty into drains. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Contains</b>	:	Zinc chloride 231-592-0
<b>Product Use</b>	:	Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use. - Consumer applications.
<b>EC Statistical Classification (Tariff Code)</b>	:	32089091

### National regulations

Corrosive, Dangerous for the environment

#### Denmark

<b>Additional Warning Phrases</b>	:	Not applicable.
<b>Denmark – Cancer Risks</b>	:	Not available.
<b>MAL-code</b>	:	00-4
<b>Denmark – Restrictions on Use</b>	:	Not to be used by professional users below 18 years of age, see the National Working Environment Authorities Executive Order on young peoples dangerous work.
<b>Statutory Order 571 on Aerosols</b>	:	Not applicable.

#### Netherlands

<b>K-Klasse</b>	:	K5
<b>CPR</b>	:	i
<b>SHHR</b>	:	6FZ

#### Germany

<b>Employment restrictions in accordance with § 15b of the Hazardous Substance Ordinance</b>	:	Yes.
<b>Hazardous Incident Ordinance</b>	:	No.
<b>Ordinance on Combustible Liquids</b>	:	Class: Omitted
<b>Hazard class for water</b>	:	3

## 16. Other information

<b>Full text of R-Phrases with no. appearing in Section 2 - Europe</b>	:	R34- Causes burns. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Text of classifications appearing in Section 2 - Europe</b>	:	C - Corrosive N - Dangerous for the environment.
<b>HISTORY</b>		
<b>Date of printing</b>	:	19/12/2003.
<b>Date of issue</b>	:	03/11/2003.

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## **Fluxite Paste**

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**Version** : 2  
**Prepared by** : **Simon Hosken**  
Environmental, Health and Safety Manager

### Notice to Reader

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*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

**Version** 2

**Page: 6/6**