

## SAFETY DATA SHEET

### LEAD FREE SOLDER PASTE LFS 218

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

PRODUCT NAME                    LEAD FREE SOLDER PASTE LFS 218  
 PRODUCT NO.                    7268  
 SUPPLIER                         BLT Circuit Services Limited  
    Brome Industrial Estate  
    Brome, Eye  
    Suffolk. IP23 7HN  
    01379 870870  
    01379 870970

#### 2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
N-METHYL-2-PYRROLIDONE	212-828-1	872-50-4	1-5%	Xi;R36/38
ROSIN	232-475-7	8050-09-7	5-10%	R43

The Full Text for all R-Phrases are Displayed in Section 16

#### 3 HAZARDS IDENTIFICATION

May cause sensitisation by skin contact.

CLASSIFICATION                    R43.

#### 4 FIRST-AID MEASURES

##### GENERAL INFORMATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

##### INHALATION

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

##### INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Drink plenty of water. Get medical attention immediately! Provide rest, warmth and fresh air.

##### SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

##### EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

#### 5 FIRE-FIGHTING MEASURES

##### EXTINGUISHING MEDIA

Water spray. Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>).

##### SPECIAL FIRE FIGHTING PROCEDURES

Fire can be extinguished using: Carbon dioxide (CO<sub>2</sub>). Water spray. Powder Use pressurised air mask if product is involved in a fire.

##### SPECIFIC HAZARDS

Fire creates: Toxic gases/vapours/fumes of Heavy metals and Aldehydes

##### PROTECTIVE MEASURES IN FIRE

Wear self contained breathing apparatus

#### 6 ACCIDENTAL RELEASE MEASURES

##### PERSONAL PRECAUTIONS

WEAR GLOVES AND BOOTS

##### ENVIRONMENTAL PRECAUTIONS

PREVENT CONTAMINATION OF SOIL AND WATER. PREVENT FROM ENTERING INTO DRAINS

##### SPILL CLEAN UP METHODS

Scrape up spilled material and put in sealed container for disposal. Avoid contact with skin.

#### 7 HANDLING AND STORAGE

**LEAD FREE SOLDER PASTE LFS 218****USAGE PRECAUTIONS**

Provide good ventilation. Do not eat, drink or smoke during use. Wash hands after handling solder paste. Avoid spilling, skin and eye contact.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a cool, dry well-ventilated place. Keep in original container.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	LT - ppm	LT - mg/m <sup>3</sup>	ST - ppm	ST - mg/m <sup>3</sup>
N-METHYL-2-PYRROLIDONE	WEL	25 ppm(Sk)	103 mg/m <sup>3</sup> (Sk)	75 ppm(Sk)	309 mg/m <sup>3</sup> (Sk)
ROSIN	WEL		0.05 mg/m <sup>3</sup>		0.15 mg/m <sup>3</sup>

**PROTECTIVE EQUIPMENT****PROCESS CONDITIONS**

Use engineering controls to reduce air contamination to permissible exposure level.

**ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

**RESPIRATORY EQUIPMENT**

If ventilation is insufficient, suitable respiratory protection must be provided.

**HAND PROTECTION**

Use suitable protective gloves if risk of skin contact.

**OTHER PROTECTION**

**AVOID ALL SKIN AND RESPIRATORY CONTACT!**

**HYGIENE MEASURES**

Wash hands after handling.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Paste		
COLOUR	Grey		
ODOUR	Mild (or faint).		
BOILING POINT (°C)	270 (solvent)	MELTING POINT (°C)	221
RELATIVE DENSITY	4-6 @ 20 °c	PARTICLE SIZE (Micron)	20-45
VAPOUR PRESSURE	Not determined	FLASH POINT (°C)	180 CC (Closed cup).
FLAMMABILITY LIMIT - LOWER(%)	Not determined	FLAMMABILITY LIMIT - UPPER(%)	Not determined

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions. SHELF LIFE 6 MONTHS WHEN STORED AT <5 DEGREES CENTIGRADE IN SEALED CONTAINERS

**CONDITIONS TO AVOID**

Avoid contact with acids and oxidising substances.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Fire creates: Irritating gases/vapours/fumes of: Aldehydes

**11 TOXICOLOGICAL INFORMATION****INHALATION**

May cause sensitisation by inhalation.

**INGESTION**

Very toxic if swallowed.

**SKIN CONTACT**

May cause sensitisation by skin contact.

**EYE CONTACT**

Irritation of eyes and mucous membranes.

**HEALTH WARNINGS**

May cause liver and/or renal damage.

The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed.

## LEAD FREE SOLDER PASTE LFS 218

**TARGET ORGANS**

Skin. Eyes. Respiratory system, lungs.

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### 12 ECOLOGICAL INFORMATION

**ECOTOXICITY**

This product is not biodegradable

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### 13 DISPOSAL CONSIDERATIONS

**GENERAL INFORMATION**

WASTE PRODUCT SHOULD BE DISPOSED OF VIA REGISTERED WASTE DISPOSAL COMPANY

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements. Whenever possible unwanted solder paste should be sent for metal recovery by a licensed contractor.

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### 14 TRANSPORT INFORMATION

GENERAL	NOT CLASSIFIED IN RID/ADR OR IATA	
	No transport warning sign required.	
ADR CLASS	Not classified for transportation. MARINE POLLUTANT	No.

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### 15 REGULATORY INFORMATION

**LABELLING**



Irritant

**CONTAINS**

ROSIN

**RISK PHRASES**

R43 May cause sensitisation by skin contact.

**SAFETY PHRASES**

S24 Avoid contact with skin.  
 S37 Wear suitable gloves.  
 S60 This material and its container must be disposed of as hazardous waste.

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### 16 OTHER INFORMATION

REVISION DATE	FEB. 2006
REV. NO./REPL. SDS GENERATED	1
SDS NO.	LFS/218/1
<b>RISK PHRASES IN FULL</b>	
R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.