# Safety Data Sheet

# According to Regulation (EC) No 1907/2006, Annex II,

# Amended by COMMISSION REGULATION (EU) 2015/830.

# According to REGULATION (EC) No 1272/2008

Rosin core lead free solder

Version 1.0

Issue date: 03-12-2018 Revision date: 03-12-2018

SDS Record Number: CSSS-TCO-010-129695

# Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name:

ROSIN FLUX CORED LEAD-FREE SOLDER

Additional identification:

Draper stock numbers 71415, 97992, 97993, 97994, 98102

Identification of the product:

See section 3

Index Number:

See section 3

REACH registration No.:

See section 3

# 1.2 Relevant identified uses of the substance or mixture and uses advised against:

1.2.1 Identified uses:

Not available.

#### 1.2.2 Uses advised against:

Not available.

# 1.3 Details of the supplier of the safety data sheet:

Supplier(Manufacturer):

Draper Tools Ltd

Address:

Hursley Road, Chandlers Ford, Eastleigh, Hampshire

SO53 1YF

### 1.4 Emergency telephone Number:

Draper Helpline +44 (0) 2380 494344

### Section 2 Hazards Identification

# 2.1 Classification of the substance or mixture:

#### 2.1.1 Classification:

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008		
Hazard classes/Hazard categories	Hazard statement	
Skin Sens. 1	H317	
	11017	

For full text of H- phrases: see section 2.2.

#### 2.2 label elements:

Hazard Pictograms:



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SDS EU 1 / 7 Signal Word(S):

Hazard Statement:

Waming

H317: May cause an allergic skin reaction

Precautionary statement:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P272: Contaminated work clothing should not be allowed out of the workplace.

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

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

P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.

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

P501: Dispose of contents/container in accordance with local regulation.

#### 2.3 Other hazards:

Not applicable.

# Section 3 Composition/information on ingredients

Substance/Mixture:

Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	Classification
Tin	N/A	7440-31-5	231-141-8	97.3%	Not Classified
Rosin	N/A	8050-09-7	232-475-7	2%	H317
Соррег	N/A	7440-50-8	231-159-6	0.6%	Not Classified
Silver	N/A	7440-22-4	231-131-3	<500ppm	Not Classified
Lead	N/A	7439-92-1	231-100-4	<100ppm	H362 H360FD

### Section 4 First aid measures

### 4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

### 4.1.1 In case of inhalation:

Emetic. If no anesis, please go to the hospital.

#### 4.1.2 In case of skin contact:

Wash with soap and water.

### 4.1.3 In case of eyes contact:

Immediately rinse eyes with running water for at least 15 minutes, If no anesis, please go to the hospital.

#### 4.1.4 In case of ingestion:

Emetic. If no anesis, please go to the hospital.

# 4.2 Most important symptoms and effects, both acute and delayed:

Swallowed large amounts may cause digestive system discomfort. Several repeated prolonged exposures (24 to 48 hours) may cause skin irritate. Direct contact may cause eye temporary discomfort with mild inflamed, aningeresting, and irritation. May cause an allergic skin reaction.

# 4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

# Section 5 Firefighting measures

### 5.1 Extinguishing media:

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Suitable extinguishing media:

Unsuitable extinguishing media:

5.2 Special hazards arising from the

substance or mixture

5.3 Advice for firefighters:

Foam, dry chemical or CO2, other Class B agents, water spray.

Avoid solid water stream if possible.

Burning can produce carbon monoxide, carbon dioxide, oxides of silicon, and

hydrocarbons. The hydrogen fluoride will be released when burning.

In the event of fire, wear self-contained breathing apparatus. Use personal

protective equipment. Wear chemical resistant oversuit. Cool containers / tanks

with water spray.

### Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Prevent further leakage or spillage if safe to do so. Keep away from

incompatible products.

6.1.2 For emergency responders:

Evacuate personnel to safe areas. Keep people away from and upwind of

spill/leak. Ventilate the area. Wear suitable protective clothing.

6.2 Environmental Precautions:

Should not be released into the environment. Do not flush into surface water or

sanitary sewer system. If the product contaminates rivers and lakes or drains

inform respective authorities.

6.3 Methods and material for Containment

and Cleaning up:

Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Avoid prolonged skin contact. Keep the air flowing when using. Avoid eye contact. Avoid breathing dust. Wash hands completely when finished using or

contact

7.1.2 Advice on general occupational

hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Avoid direct sunlight. Store away from food and water. Keep away from fire and

heating sources. Equipped with corresponding varieties and number of fire equipment. Storage areas should be equipped with leakage emergency treatment equipment and suitable for accept materials.

7.3 Specific end use(s):

Not applicable.

# Section 8 Exposure Controls/Personal Protection

#### 8.1 Control parameters:

#### 8.1.1 Occupational exposure limits:

County			Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		
Country	Substance	CAS No.	ppm	mg/ m3	ppm	mg/ m3	Note
Ireland	Tin compounds, inorganic, except SnH4, (as Sn)	7440-31-5 & others	-	2	-	4	-
Ireland	Lead and its compounds (except tetraethyl lead);	7439-92-1	-	0.15	-	-	Repro1, BELV
Ireland	Copper (as Cu) Fume dusts and mists (as Cu)	7440-50-8	-	0.2			-

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Ireland	Silver (metallic)	7440-22-4	_	0.1		<del>-</del>	IOELV
United Kingdom	Rosin-based solder flux fume	8050-09-7	-	0.05		0.15	Sen
8.1.2 Additional exposure limits under the Not available.							

conditions of use:

8.1.3 DNEL/DMEL and PNEC-Values:

Not available.

8.2 Exposure controls:

8.2.1Appropriate engineering controls:

Ensure adequate ventilation. Apply technical measures to comply with the

occupational exposure limits.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection:

Wear chemical safety protective glasses.

Hand protection:

Wear rubber oil resistant glove.

Body protection:

Wear anti-static clothes.

Respiratory protection:

Exceed the standard concentration in air, must wear self-priming filter type gas

mask (half mask), emergency rescue or evacuation, should wear air respirator.

Thermal hazards:

Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls:

Avoid discharge into the environment.

According to local regulations, Federal and official regulations.

# Section 9 Physical and chemical properties

# 9.1 Information on basic physical and chemical properties:

Appearance:

Silvery solid

Colour:

Silvery

Odour:

pH:

Odorless

Odour threshold:

Not available Not available

Melting point/range (°C):

231.88°C

Boiling point/range (°C):

Not available

Flash point (°C):

Not available

Fire Point:

2507°C

Evaporation rate:

Not available

Flammability limit - lower (%):

Not available

Flammability (solid, gas):

Not available

Ignition temperature (°C):

Not available

Upper/lower explosive limits:

Not available

Vapour pressure (20°C):

Not available Not available

Vapour density: Relative Density:

7.28 (20°C)

Bulk density (kg/m³):

Not available

Water solubility (g/l):

Insoluble

n-Octanol/Water (log Po/w):

Not available

Auto-ignition temperature:

Not available

Decomposition temperature:

Not available

Viscosity, dynamic (mPa.s):

Not available

**Explosive properties:** 

Not available

Oxidising properties:

Not available

#### 9.2. Other information:

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Fat solubility(solvent-oil to be specified)

.

Not available

etc:

Surface tension:

Not available

Dissociation constant in water( pKa):

Not available

**Oxidation-reduction Potential:** 

Not available

#### Section 10 Stability and reactivity

10.1 Reactivity:

The substance is stable under normal storage and handling conditions.

10.2 Chemical stability:

Stable at room temperature in closed containers under normal storage and

handling conditions.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Conditions to avoid:

Incompatible materials. Keep away from direct sunlight. To avoid thermal

decomposition, do not overheat.

10.5 Incompatible materials:

Oxidizing agents.

10.6 Hazardous decomposition products:

Burning can produce carbon monoxide, carbon dioxide, oxides of silicon, and

hydrocarbons. The hydrogen fluoride will be released when burning.

### Section 11 Toxicological information

#### 11.1 Information on toxicological effects:

Acute toxicity:

ATE<sub>mix</sub>(oral):

Not available

ATE<sub>mix</sub>(inhalation):

Not available

ATEmix(Dermal):

Not available

Tin (CAS#7440-31-5)

LD50(Oral, Rat):

> 2000 mg/kg bw female

LC50(Inhalation, Rat):

> 4.75 mg/L 4 h

LD50(Dermal, Rat):

> 2000 mg/kg bw

Skin corrosion/Irritation:

Not classified

Serious eye damage/irritation:

Not classified

Respiratory or skin sensitization:

May cause an allergic skin reaction.

Germ cell mutagenicity:

Not classified

Carcinogenicity:

Not classified

Reproductive toxicity:

Not classified

STOT- single exposure:

Not classified

STOT-repeated exposure:

Not classified

Aspiration hazard:

Not classified

### Section 12 Ecological information

#### 12.1 Toxicity:

Tin (CAS#7440-31-5)

Acute (short-term) toxicity:

LC50(96h, Fish):

> 12.4 µg/L

EC50(48h, Crustacea):

Not available

EC50(72h, Algae/aquatic plants):

> 19.2 µg/L

Chronic (long-term) toxicity:

NOEC(Fish):

Not available

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SDS EU 5 / 7 NOEC(Crustacea):

Not available

EC50(Algae/aquatic plants):

Not available

12.2 Persistence and degradability:

Not available.

12.3 Bioaccumulative potential:

Not available.

12.4 Mobility in soil:

Not available.

12.5 Results of PBT and vPvB assessment:

Not applicable

12.6 Other adverse effects:

Not available.

## Section 13 Disposal considerations

#### 13.1 Waste treatment methods:

Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

	Land transport (ADR/RID)	inland waterways (ADN)	Sea transport (IMDG)	Air transport
UN number	Not Regulated	Not Regulated	Not Regulated	Not Regulated
UN Proper shipping name	Not Regulated	Not Regulated	Not Regulated	Not Regulated
Transport hazard Class(es)	Not Regulated	Not Regulated	Not Regulated	Not Regulated
Packing group	Not Regulated	Not Regulated	Not Regulated	<del></del>
Environmental hazards	No	No	No	Not Regulated
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	No
Transport in bulk according to Annex II of Marpol and the IBC Code	Not Regulated	Not Regulated	Not Regulated	See section 2.2  Not Regulated

## Section 15 Regulatory information

15.1 Safety, health and	environmental regulations/legislation specific for the substance or mixture
Polovo-ti-f	regulations/legislation specific for the substance or mixture.

Relevant information regarding authorization:

Not applicable.

Relevant information regarding restriction:

Not applicable.

Other EU regulations:

Employment restrictions concerning young person must be observed.

For use by technically competent individuals

Other National regulations:

Not applicable

15.2 Chemical safety assessment

YES

NO

### Section 16 Other information

### 16.1 Indication of changes:

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#### 16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization IATA: International Air Transport Association

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

### 16.3 Key literature references and sources for data

ECHA Registered substances data

# 16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC)

#### 1272/2008 [CLP]

Classification according to Regu	lation (EC) No. 1272/2008	Classification procedure
Skin Sens. 1	H317	Calculation method

### 16.5 Relevant H-statements (number and full text):

H317: May cause an allergic skin reaction

H360FD: May damage fertility. May damage the unborn child.

H362: May cause harm to breast-fed children.

#### 16.6 Training instructions:

Not applicable.

#### 16.7 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

#### 16.8 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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