

Material Safety Data Sheet

In accordance with REACH Regulation (EC) no. 1907/2006

1. Identification of the substance/mixture and of the company/undertaking.

Produktidentificator: Solder 60-40 0,8 MM

PR-nr.: -

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

Scope under RoHS and Annex V:

- * Lead in solder with high melting temperature (ie lead-based alloys containing 85 weight percent or more lead)
- * Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission as well as network management for telecommunications
- * Electrical and electronic components containing lead in glass, ceramics other than dielectric ceramic in capacitors, for example, piezoelectric components, or a glass or ceramic matrix

Details of the supplier of the safety data sheet:

Producer:

Company: Unipak A/S
Marktoften 3c
8464 Galten
Denmark

Contactperson: lja@eurofins.dk

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Date: 22.2.2013

The logo for Unipak, featuring the word "Unipak" in a bold, yellow, sans-serif font with a black outline.

2. Hazards identification

Classification of the substance or mixture:

The product is classified as dangerous with N, R50-53 according to the Danish Environment Ministry Order no. 1075/2011.. Molten product can cause severe burns on contact with skin and eyes. The product contains a small amount of rosin, which may cause sensitization by skin contact. The product is hazardous to the environment.

The full text of R-phrases see. 16

Labeling elements:

Labeling according to 1075/2011

Eurofins Product Testing A / S 22 February 2013 estimated that the product is not covered by the rules for classification and labeling according to European Parliament and Council Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).

Containing rosin (kolofonium). Can trigger an allergic reaction.

Other hazards: None known.

PBT/vPvB: Components are not PBT/vPvB according to the criteria in REACH Annex XIII.

3. Composition/information on ingredients

Substances: -

Mixtures:

<u>Substance name</u>	<u>CAS-no.</u>	<u>EF-no.</u>	<u>Indeks-no.</u>	<u>Veight-%</u>	<u>REACH reg.-no.</u>	<u>Classification</u>
Lead	7439-92-1	231-100-4	-	35-75	-	R33 CLP*: STOT RE 2;H373
(Rosin) Kolofonium	8050-09-7	232-475-7	650-015-00-7	0,1-<1	-	Xi;R43 CLP: Skin Sens. 1;H317

CLP*: European Parliament and Council Regulation (EC) no. 1272/2008.

The full text of R- and H-phrases: see section. 16

4. First-aid measures

Description of first aid measures:

Inhalation:

Seek fresh air. **Mild cases:** Keep still under observation. At discomfort: Seek medical attention. **Severe cases:** Place unconscious in recovery position with the head in a low position and keep warm. If breathing has stopped, administer artificial respiration; Seek medical attention or ambulance immediately.

Skincontact:

Wash the skin with plenty of soap and water. After washing, rub skin with a thick cream. At contact with molten product, flush with plenty of water for 15-20 minutes. If medical treatment is necessary, continue flushing until medical attention is obtained.

Eye contact:

Open the eye, rinse immediately with water or saline for at least 15 minutes. Remove contact lenses. If symptoms persist: Seek medical attention. Continue rinsing the eye during the transportation to doctor/hospital.

4. First-aid measures

Swallowing:

Immediately rinse mouth thoroughly and drink plenty of water. If immediate medical attention is not possible, do not induce vomiting. Keep the head low to prevent aspiration. Call an ambulance immediately. Do not administer liquid to unconscious. At unconsciousness see medical inhalation.

Burns:

Rinse with water until pain ceases. While flushing, remove clothes which do not adhere to the skin area. If medical treatment is necessary, continue flushing until medical attention is obtained.

Most important symptoms and effects, both acute and delayed:

Molten product can cause severe burns on contact with skin and eyes. The product contains a small amount of rosin (kolofonium), which may cause sensitization by skin contact.

Indication of any immediate medical attention and special treatment needed:

Unconscious: Immediately get medical attention. Show this safety data sheet to the doctor or emergency room.

5. Fire-fighting measures

Extinguishing media:

Water spray (never water jet - spreads the fire) CO2 foam, sand or powder.

Special hazards arising from the substance or mixture:

The product is not flammable. Burning produces toxic gases. for example. carbon dioxide, carbon monoxide, smoke, metal oxide etc.

Advice for firefighters:

As far as possible remove the product from areas threatened by fire, or cool with water. Wear self-contained breathing apparatus for firefighting.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment - see section. 8. Ensure good ventilation. Avoid inhalation of vapors from molten product.

Environmental precautions:

At release to the external environment, contact the environmental authorities

Methods and materials for containment and cleaning up:

Larger quantities should be handled as hazardous waste. Rinse thoroughly with water. Further handling of spillage - see section. 13

Reference to other sections:

See above.

7. Handling and storage

Precautions for safe handling:

Ensure good ventilation. Ventilation is required when dust or vapors are created (soldering). Avoid contact with skin, eyes and clothing. Wear protective gloves. At the risk of the hot product getting in your eyes, wear protective glasses. Access to water supply and eye wash facilities.

7. Handling and storage

Conditions for safe storage, including any incompatibilities:

Store in tightly closed original container in a dry place.
Keep separate from food, feedstuffs, etc.

Fire hazard class: -

Specific use:

See application - section. 1

8. Exposure controls/personal protection

Control parameters:

The following notifiable ingredients have a threshold according to the notice of the limit values for substances and materials No 1134/2011:

Lead, powder, dust, smoke and inorganic compounds, calculated as Pb 0,05 mg/m³ (EU limit value)

Compliance with limit values can be checked by occupational hygiene measurements.

DNEL: No CSR.

PNEC: No CSR.

Exposure control:

Appropriate measures for exposure control:
Ensure good ventilation.

Personal protective equipment:

Inhalation: In case of inadequate ventilation: Use half mask EN140 with replaceable dust filter P2 R according to EN 143 The filters have a limited life (to be replaced). Read the instruction.

Skin: Suitable for use in soldering: Leather gloves.

Eyes: Wear Safety goggles at risk of product entering the eyes.

Measures to reduce environmental exposure:

Any residues and waste from production, must be collected and disposed of as mentioned in para. 13

Treatment and discharge of waste water shall be in accordance with local regulations.

9. Physical and chemical properties

Information on basic physical and chemical properties:

Appearance: Silver gray material

Vapour pressure: <1 hPa

Odour: -

Vapor Density: 8,5 g/cm³

Odour threshold: -

Density: -

pH:

Solubility in water: Insoluble

Melting point/freezingpoint: -

Partition coefficient n-octanol/water: -

Initial boiling point and boiling range: -

Auto-ignition temperature: -

Flash point: -

Decomposition temperature: -

Evaporation rate: -

Viscosity: -

Flammability: -

Explosive properties: -

Upper / lower flammability or explosive limits vol.%: -

Oxidizing properties: -

Other information: -

-: Means no data or not applicable

10. Stability and reactivity

Reactivity:

Stable under normal handling to the melting point. Heat may create toxic gases. Avoid contact with acids, alkaline materials and oxidizing agents.

Chemical stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

Stable under normal conditions.

Conditions to avoid:

None known.

Materials to avoid:

None known.

Farlige nedbrydningsprodukter:

Decomposition products at fire can be; monoxide, carbon dioxide, smoke, metal oxides, etc.

11. Toxicological information

Information on toxicological effects:

Hazard class	Data	Test	Data Source
Acute toxicity:	Rosin (Kolofonium):		
Inhalation	LC50 (rat): No data	-	-
Dermal	LD50 (rabbit) > 2000 mg / kg	OECD 402	ECHA
Oral	LD50 (rat): 2800 mg / kg	-	ECHA
Corrosion/irritation:	Skin (rabbit): Not irritating	OECD 404	ECHA
	Eye (rabbit): Not irritating	OECD 405	ECHA
Sensitization	Sensitization on EU's harmonized list, but the product does not qualify sensitization	Several tests	ECHA
CMR:	Carcinogenic effects: No data available	-	-
	Mutagenicity: Negative in tests	OECD 471	ECHA
	Fertility toxicity: NOEL (Rep / Devel.): 3000 mg / kg bw / day	OECD 421	ECHA
	Embryo damaging effects: Planned study, not yet completed.	OECD 414	ECHA

Likely routes of exposure: Skin, lungs and gastrointestinal tract.

Symptoms:

Inhalation:

Vapours from molten product is irritating to the respiratory system and causes a cough, headache, fever and chest pain at high concentrations.

Skin:

This product may cause irritation at contact with skin.

Eyes:

Vapours from molten product may cause irritation to the eyes.

Ingestion:

Ingestion may cause nausea, discomfort and vomiting

Long-term effects:

The product contains a small amount of rosin (Kolofonium), which may cause sensitization by skin contact.

12. Ecological information

Toxicity:

Aquatic	Data	Test (media)	Data Source
Fish	Lead: LC ₅₀ : (Oncorhynchus mykiss, 96h) = 107 mg / l (dissolved lead)	not available (FW)	ECHA
Crustaceans	EC ₅₀ : No data available	-	-
Algae	EC ₅₀ : No data available	-	-
	Rosin (Kolofonium):		
Fish	LC ₅₀ (Danio rerio, 96h): 60,3 mg/L	OECD 203	ECHA
Crustaceans	EL ₅₀ (Daphnia magna, 48h) = 911 mg/l	OECD 202	ECHA
Algae	EL ₅₀ (Selenastrum capricornutum, 72h):>1000 mg/l	OECD 201	ECHA

Not enough data for an environmental classification according to Danish Environment Ministry criteria.

Persistence and degradability:

No data available.

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

Results of PBT and vPvB assessment:

Components are not PBT / vPvB according to the criteria in Reach Annex XIII.

Other adverse effects:

None known.

13. Disposal

Waste treatment methods:

The product must be considered as hazardous waste. Use the municipal collection and removal system.

Chemical Group:	Waste fraction:	EAK code:
X	05.99	17 04 07

14. Transport information

This product is considered hazardous for transport.

UN-number: -	UN proper shipping name: -
Transport hazard class (es): 9	Packing group: -
Environmental hazards: -	Special precautions for user: -
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: -	

15. Regulatory information

Regulations / legislation specific for the substance or mixture with respect to safety, health and environment:

Not for use by persons under 18 years (except apprentices).

A workplace instruction must ensure that employees are not exposed to conditions that may pose a risk during pregnancy or breastfeeding.

15. Regulatory information

In addition, subject to the following regulations: -

Chemical Safety assessment:

No CSA.

16. Other information

Hazard Phrases referred to under sections 2, 3 and 16:

R33: Danger of cumulative effects
R43: May cause sensitisation by skin contact
H317: May cause an allergic skin reaction
H373: May cause damage to organs through prolonged or repeated exposure

Abbreviations:

At = The Danish Working Environment Authority (Arbejdstilsynets) threshold list.
BOD: Biochemical oxygen demand
CMR = Carcinogenicity, mutagenicity and reproductive toxicity
COD: Chemical oxygen demand
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DNEL = Derived No-Effect level
EC₅₀ = Effect Concentration 50%
K og S = Kemikalier og Sikkerhed, Nyt Teknisk Forlag
LC₅₀ = Lethal Concentration 50%
LD₅₀ = Lethal Dose 50%
OECD: Organisation for Economic Co-operation and Development
PBT= Persistent, Bioaccumulative, Toxic
PNEC = Predicted No-Effect Concentration
vPvB = very Persistent, very Bioaccumulative

Litteratur:

ECHA = European Chemical Agency
IUCLID = International Uniform Chemical Information Database
RTECS = Registry of Toxic Effects of Chemical Substances
1272/2008 = European Parliament and Council Regulation (EF) no. 1272/2008

Advice on training/instruction:

The product should only be used by persons well instructed in the proper work procedure and familiar with the contents of this safety data sheet.

Further information:

The product has been classified according to the CLP with STOT RE 2;H373.
Molten product can cause severe burns on contact with skin and eyes. May cause damage to organs through prolonged or repeated exposure. The product contains a small amount of rosin (Kolophonium), which may cause sensitization by skin contact. The product is hazardous.

Labelling according to CLP (1272/2008)

May cause damage to organs through prolonged or repeated exposure (H373)
Contains rosin (Kolophonium). May produce an allergic reaction (EUH208)

Dispose of contents/container in accordance with national regulations (P501)



Warning

The safety data sheet is prepared according to REACH Regulation (EC) No 1907/2006.
The safety data sheet is updated. Latest version: 19.5.2010.

Changes since the previous version: 1-16.

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