

SDS Reference SEN049
Version No. 1-2
Revision Date
Authorisation Date 6TH SEPTEMBER 2012

Safety Data Sheet



Product Name SENJU ECOSOLDER PASTE M705-GRN360-K

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1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name SENJU ECOSOLDER PASTE M705-GRN360-K

Synonym (s)

Company Identification SENJU MANUFACTURING (EUROPE) LIMITED

5 The Gateway Centre

Cressex Business Park

High Wycombe HP12 3SU

Telephone +44 (0)1494 526000

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation ALLOY MATERIAL WITH ADDITIVES

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
COPPER	7440-50-8	231-159-6		< 1%
SILVER	7440-22-4	231-131-3		1-3%
ROSIN	65997-05-9	NOT AVAILABLE	Xi; R43	4-6%
DIETHYLENEGLYCOL MONO 2-ETHYLHEXYL ETHER	1559-36-0	NOT AVAILABLE	See section 16 Xi: R36/37/38	2-4%
HYDRATED CASTER OIL	8001-78-3	232-292-2	Xi: R43	< 1%

3. HAZARDS IDENTIFICATION



IRRITANT

Physical & Chemical:

Health: MAY CAUSE SENSITISATION BY SKIN CONTACT

Environmental:

4. FIRST AID MEASURES

General information Remove contaminated clothing immediately, to be disposed of or washed before reuse.

Inhalation If inhaled, provide fresh air, warmth, rest and if necessary, seek medical advice.

Skin contact Wash contaminated skin with soap and large quantities of water.

Eye contact Wash out eye thoroughly with plenty of water until irritation subsides. If necessary seek medical advice.

Ingestion Allow the patient to vomit on his own accord. Give copious water to drink; if necessary seek medical advice.

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5. FIRE FIGHTING MEASURES

General hazard

Extinguishing media To suit local surroundings (e.g. carbon dioxide or chemical powder)

Extinguishing media not to be used

Special exposure hazards The thermal decomposition products released should be considered toxic if inhaled.

Protective equipment Wear self-contained breathing apparatus.

Further information

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up Adhere to personal protective measures.
Take up mechanically (e.g. sweep or vacuum up). Label container and dispose of as prescribed.

Environmental considerations Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.

7. HANDLING & STORAGE

Advice on safe handling Handle in accordance with good hygiene and safety practice. .

Storage conditions Ensure adequate ventilation of the storage area. Keep containers tightly closed and dry.

Further information

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls

LTEL (8 hour TWA):	ppm	0.1	mg/m ³	(OEL for silver, EH40/2002)
LTEL (8 hour TWA):	ppm	0.2	mg/m ³	(OEL for copper fume, EH40/2002)
LTEL (8 hour TWA):	ppm	1	mg/m ³	(OEL for copper dust and mists)**
STEL (15 min)	ppm	2	mg/m ³	(OEL for copper dust and mists)**

**EH40/2002.

Engineering controls Ensure adequate ventilation of working area

Personal protection Observe normal standards for handling chemicals.
It is recommended that those with a medical history of sensitisation should not handle this product.
Avoid breathing vapour. Avoid contact with skin and eyes.
Wash hands before breaks and after work.
Wear personal protective equipment appropriate to the task (see below)

Eye protection Safety goggles

Skin protection Plastic or rubber gloves

Respiratory protection Dust mask or respirator if ventilation is judged to be insufficient.

Other protection Protective overalls or aprons

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9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Viscous paste		
Colour	Amber		
Odour	Mild, ether-like		
pH			
Boiling pt / range	> 270 °C		
Melting pt / range	217-219 °C (alloy material)		
Flash point	141 °C (Solvent)		
Autoflammability			
Specific gravity	4.5		
Explosive limits	Lower:	% (v/v)	Higher: % (v/v)
Viscosity			
Water solubility	Insoluble		
Additional information			

10. STABILITY & REACTIVITY

Stability	The product is stable		
Thermal decomposition			
Conditions to avoid	Heat, sparks and open flames		
Material to avoid	The product is incompatible with strong oxidising agents, acids, hydrogen peroxide		
Hazardous reactions	Hazardous polymerisation will not occur.		
Hazardous decomposition products	Oxides of carbon, aliphatic aldehydes		

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD ₅₀ rat (oral)	mg/kg	No data available
Dermal compatibility	No data available		
Mucous membrane compatibility	No data available		
Further information	Vapours may cause irritation to eyes, nose and throat and headaches plus neurological effects.		

12. ECOLOGICAL INFORMATION

Acute toxicity	LC ₅₀ Fish	mg/l	No data available
Degradability	No data available		

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11. TOXICOLOGICAL INFORMATION

Further information

13. DISPOSAL CONSIDERATIONS

Advice on disposal In accordance with national and local authority regulations, e.g. special waste or incineration
Contaminated packaging Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

14. TRANSPORT INFORMATION

United Nations number The product is not classified for transport.
Packaging group
IMDG code
RID / ADR
Marine pollutant The product should not be marked as a marine pollutant

15. REGULATORY INFORMATION

Classification & labelling The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 3) and the Dangerous Preparations Directive (1999/45/EC)
Substances to be included on the label Contains rosin



IRRITANT

Risk phrases R43 MAY CAUSE SENSITISATION BY SKIN CONTACT
Safety phrases S24 AVOID CONTACT WITH THE SKIN
S37 WEAR SUITABLE GLOVES

16. OTHER INFORMATION

Further information The rosin classification is based on that for similar substances.

Risk phrases in section 2

R36/37/38: Irritating to eyes, respiratory system and skin.

Sources of data The Approved Supply List, other suppliers' safety data sheets

Date of issue 11-09-2002

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16. OTHER INFORMATION

This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.

Safety data sheet prepared by Rising HS&E Services.