

MATERIAL SAFETY DATA SHEET

MSDS

Last changed: 04/02/2000

Internal num.: 11

Replaces date:

JOTAFLOOR SL UNIVERSAL - COMP. A

1. PRODUCT AND COMPANY

TRADE NAME : JOTAFLOOR SL UNIVERSAL - COMP. A
APPLICATION : Two component epoxy flooring
ART-No : PM3158

PRODUCER/IMPORTER :

Company : JOTUN-HENRY CLARK LTD.
Address : Flixborough, Scunthorpe
Zip & city : North Lincolnshire DN15 8RR
Country : UK
Telephone : +44 1724 40 00 00
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Emergencyphones : Contact the National Poison Center
Contactperson : QA/Environm. dept., JOTUN A/S, NORWAY
Responsible : QA/Environm. dept., JOTUN A/S, NORWAY

2. COMPOSITION OF PRODUCT

No	Ingredients name	CAS-NO	Weight%		Dangerclas./Cmnt.
1	EPOXY RESIN, LOW MOL. (MW<700)	25068-38-6	50-100	N	XiN;sens.,36/38-43-51/53
2	2,3-EPOXYPROPYL NEODECANOATE	26761-45-5	10-25	N	XiN;Sens,43-51/53
3	POLYPROPYLENEGLYCOL-DIGLYCIDYLETHER	9072-62-2	1-2,5	N	Xi;A,36/38-43

Legend: T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, IK=No classification required, E=Explosive, O=Oxidising, F+=Extremely flammable, F=Very flammable, Fo=Flammable, N=Dang. to the environment,

3. HAZARD IDENTIFICATION



IRRITATING TO EYES AND SKIN. MAY CAUSE SENSITIZATION BY SKIN CONTACT.
 For potential danger for the environment, see section 12.

4. FIRST AID

INHALATION

Keep the patient warm in a quiet place with fresh air. If breathing has stopped, administer artificial respiration. If unconscious place in the recovery position. Seek medical advice.

SKIN CONTACT

Remove contaminated clothing. Wash skin thoroughly with soap and water or use an appropriate skin cleaner. Do NOT use solvents or thinners.

EYE CONTACT

Remove any contact lenses. Hold the eyelids apart. Irrigate copiously with clean, fresh water for at least 10 minutes. Seek medical advice.

INGESTION

DO NOT INDUCE VOMITING. If accidentally swallowed obtain immediate medical attention. Keep at rest. Seek medical advice.

MEDICAL INFORMATION

Regularly medical control. Person developing a skin rash are to be directed to a dermatologist for examination.

5. FIRE FIGHTING MEASURES

PROPER FIREFIGHTING EQUIPMENT

Recommended: alcohol resistant foam, CO₂, powders, water spray. Not to be used: water jet.

FIRE AND EXPLOSION HAZARDS

Decomposition products may be a hazard to health. Fire will produce dense black smoke containing hazardous products of combustion (see Section 10).

PERSONAL PROTECTION WHEN FIREFIGHTING

The personal protective equipment required is provided in section 8. Professional fire-fighters are required to use an air-fed system when dealing with major fires.

OTHER INFORMATION

Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water.

6. ACCIDENTAL RELEASE MEASURES

OTHER INFORMATION

Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite and diatomaceous earth. Place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environmental Agency.

7. HANDLING AND STORAGE

HANDLING ADVICE

The Manual Handling Operations Regulations may apply to the handling of containers of this product. Always keep in containers made of the same material as the supply container. Never use pressure to empty the container, it is not a pressure vessel. For personal protective equipment see Section 8. Avoid inhalation of vapour and spray mist. Avoid skin and eye contact. Avoid any skin contact with products containing epoxy; they may cause allergic reactions.

STORAGE

Containers which are opened should be properly resealed and kept upright to prevent leakage. No smoking. Keep away from oxidizing materials, strongly alkaline materials and strong acids. Observe the label precautions. Store in a dry, cold and well ventilated place away from sources of heat, ignition and direct sunlight. Keep out of frost.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

OEL s

Ingredients name	CAS-no	OEL value	OEL
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EXPOSURE CONTROL

Persons with allergic reactions to epoxy should not work with epoxy containing products. Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. OELs are taken from the current version of EH40 (by Health & Safety Executive, UK). Spray mist contains all substances of the product and must not be inhaled.

RESP. PROTECTION

When workers are facing concentrations above the occupational exposure limit they must use appropriate certified respirators. Use respiratory protective mask with charcoal and dust filter (A2/P2) when spraying this product.

EYE PROTECTION

Eye protection designed to protect against liquid splashes should be worn.

HAND PROTECTION

Use PVA/EVAL gloves. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. Never apply barrier cream to contaminated skin.

SKIN PROTECTION

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. When spraying use suit covering the whole body.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous fluid.		
Colour:	Various.		
Odour:	Organic solvent.		
Solubility:	Organic solvent.		
Melting point/range:	-	Density:	1,23
Expl. limit LEL-UEL%:	--	Boiling point/range:	-
Flash point:	>100 °C	pH concentrate:	-

10. STABILITY AND REACTIVITY

STABILITY

Stable under recommended storage and handling conditions (see section 7).

MATERIALS TO AVOID

Keep away from oxidising agents, strongly alkaline and strongly acidic materials to prevent the exothermic reactions.

HAZARDOUS DECOMPOSITION PRODUCTS

In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

11. TOXICOLOGICAL INFORMATION

GENERAL

Based on the properties of the epoxyconstituents and considering toxicological data on similar preparations, this preparation may be a skin sensitizer and an irritant. It contains low molecular epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to spray mist and vapour should be avoided.

INHALATION

Exposure to vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system.

SKIN CONTACT

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to the product's defatting properties.

EYE CONTACT

Splashes in the eyes may cause irritation and reversible local damage. Splashes in the eyes may cause irritation and reversible damage.

INGESTION

Accidental ingestion may cause vomiting and abdominal pains.

12. ECOLOGICAL INFORMATION

MOBILITY

2,3-Epoxypropyl neodecanoate: Flows on water. Absorbs to soil and will not be moveable.

BREAKDOWN

2,3-Epoxypropyl neodecanoate: Readily biodegradable.

Epoxy resin, low mol. (MW<700): 12% (OECD 301B (mod.Sturm))

ACCUMULATION

Has the potential to bioaccumulate. 2,3-Epoxypropyl neodecanoate:

ECOTOXITY

2,3-Epoxypropyl neodecanoate:

LC50 (Fish) = 1-10 mg/l. (Daphnia) = 10-100 mg/l.

EC50 (Algae) = 10-100 mg/l. (Bacteria) = >100 mg/l.

Epoxy resin, low mol. (MW<700):

LC50 (Rainbow trout) = 1,5 mg/l (OECD 203)

EC50 (Daphnia) = 3,6 mg/l (OECD 202)

IC50 (Resp. inhibition activated mud) > 100 mg/l (EEC(1998))

OTHER INFORMATION

Do not discharge the product to sewer or drains. The product contains epoxy compounds labelled "Dangerous for the environment". The product contains 2,3-Epoxypropyl neodecanoate labeled "Dangerous for the environment".

13. DISPOSAL

Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

WASTEGROUP

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVE, SEALANTS AND PRINTING INKS. 08 01 02 Waste paints and varnish free of halogenated solvents.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. Epoxy resin, low mol. MW <700,		
	ADR (Road)		
UN No	3082	Class	9,11 c)
Label	9		
	IMDG (Sea)		
UN No	3082	Class	9
Label	9	Packaging Group	III
EmS	-	MFAG	-
Page	9028		

Transport only in accordance with ADR for road, RID for rail, IMDG for sea transport and IATA for airtransport. The product is not classified as dangerous goods for carriage.

15. REGULATORY INFORMATION

Classif.:



COMPOSITION

EPOXY RESIN, LOW MOL. (MW<700) (50-100)

R-PHRASES

R36/38 - Irritating to eyes and skin. R43 May cause sensitization by skin contact.

S-PHRASES

S23 Do not breathe vapour/spray. S24 Avoid contact with skin. S37-Wear suitable gloves. S38 In case of insufficient ventilation, wear suitable respiratory equipment. P92 Contains epoxy constituents - See information supplied by the manufacturer This information is supplied in the present MSDS.

REFERENCES

The product is labelled for supply in accordance with the current issue of CHIP Regulations, and latest version of the approved supply list.

16. OTHER INFORMATION

ISSUED:04/02/2000

INFORMATION SOURCES:

USER NOTES

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