

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:	STOVEX	PR-no.: Not notifiable
Relevant identified uses of the substance or mixture and uses advised against: The product is used for fire proof repairs of cracks and leaks.		
Details of the supplier of the safety data sheet:		Producer:
Company:	Unipak A/S Marktoften 3c 8464 Galten Denmark	Unipak A/S Marktoften 3c 8464 Galten Denmark
Contactperson:	lve@eurofins.dk	
Phone no. for emergencies:	+45 86 26 11 77 (Unipak, work hours) +45 82 12 12 12 (Bispebjerg hospital, Giftlinje ("Toxins Line"))	
Date:	12.11.2012	

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 not classified as dangerous according to the Danish Environment Ministry Regulation no 1075/2011 *)
This product is irritating on repeated or prolonged contact with eyes.

*) : This product contains sodium silicate. The following is calculated for STOVEX: MR (molar ratio) > 3.2 and < 40% dry matter. Therefore this product does not have to be labeled.

Labelling elements:

Labeling according to 1075/2011

Eurofins Product Testing A/S the 7th of November 2013 estimated that the product should not be classified according to the Danish Environment Ministry Directive on classification, labeling etc.

Recommendations for the label:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)

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: -

Mixture:

<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>
sodium silicate	1344-09-8	215-687-4	-	15-20	-	C;R34 Xi;R37 CLP*: Skin Corr. 1B;H314 STOT SE 3;H335 Met. Corr.1;H290

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

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

4. First-aid measures

Description of first aid measures:

Inhalation:

Not relevant

Skin contact:

Wash the skin with plenty of soap and water. After washing, rub skin with a thick cream.

Eye contact:

Open the eye, rinse immediately with water or saline for 15 minutes. Remove contact lenses. If the irritation does not improve, seek medical advice.

Swallowing:

Avoid vomiting if possible. Give the casualty plenty of water to drink. Seek medical advice in case of persistent discomfort.

Most important symptoms and effects, both acute and delayed:

This product is irritating on repeated or prolonged contact with eyes.

Indication of any immediate medical attention and special treatment needed:

Not applicable.

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.

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.

Environmental precautions:

Avoid discharge into drainage systems - see section. 12. At release to the external environment, contact the environmental authorities

Methods and materials for containment and cleaning up:

Larger quantities should be handled as chemical 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:

Avoid contact with skin and eyes. The workplace must be well ventilated.

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:

None.

DNEL: No CSR.

PNEC: No CSR.

8. Exposure controls/personal protection

Exposure control:

Appropriate measures for exposure control:

Personal protective equipment:

Inhalation: Respiratory protection is not normally required.

Skin: If skin contact can not be avoided, use protective gloves, for example. nitrile *).

*) It is important to note that there are many different types of gloves, why it is necessary to document the effectiveness with regard to the actual product.

Eyes: Not applicable as there can not come splashes from the product.

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: Black paste

Vapour pressure: -

Odour: -

Vapor Density: -

Odour threshold: -

Density: -

pH: 11,3

Solubility in water:-

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 conditions.

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.

Hazardous decomposition products:

None known

11. Toxicological information

Hazard class	Data	Test	Data source
Akut toksicitet: Inhalation: Dermal Oral	Sodium silicate: LC ₅₀ = 2,06 mg/L air, 4h (rat) (MR = 2,47)	EPA OPPTS 870.1300	C&L
	LD ₅₀ (rat), 24h > 5000 mg/kg bw (MR = 2,47)	EPA OPPTS 870.1200	C&L
	LD ₅₀ (rat) = 5154 mg/kg bw (MR = 3,27)	OECD 401	C&L
Etching/irritation:	Eye irritation (rabbit): Not irritating (MR = 3,3)	FHSA 16 C.F.R. 1500.42	C&L C&L
	Skin irritation (rabbit): Not irritating (MR = 3,4)	OECD 404	C&L
Sensitization	Not sensitizing	-	C&L
CMR:	Carcinogenic effects: No data available	-	C&L
	Mutagenicity: Negative	-	C&L
	Fertility toxicity: No effect	-	C&L
	Embryo damaging effects: No effect	-	C&L

Information on toxicological effects:

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

Symptoms:

Inhalation:

Not applicable. Does not contain volatile substances.

Skin:

This product may cause irritation at contact with skin.

Eyes:

This product may cause irritation at contact with the eyes.

Ingestion:

Ingestion may cause nausea and vomiting.

Long-term effects:

None known.

12. Ecological information

Aquatic	Data	Test (media)	Data Source
Fish	Natriumsilikat: LC ₅₀ , 96h = 1108 mg/L (Danio rerio)	FW	C&L
Crustaceans	EC ₅₀ , 1700 mg/L (Daphnia Magna)	FW	C&L
Algae	EC ₅₀ , 72h = > 345,4mg/L (Desmodesmus subspicatus)	FW	C&L

Toxicity:

There are insufficient data for an environmental classification of ingredients according to Danish Environment Ministry criteria.

Persistence and degradability:

No data available.

Bioaccumulative potential:

No data available.

12. Ecological information

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:

This product is not considered hazardous waste. Use the municipal collection and removal system

Chemical Group:

H

Waste fraction:

05.00

EAK code:

08 04 10

14. Transport information

The product is not classified as hazardous with respect to transportation.

UN-number: -

Transport hazard class (es): -

Environmental hazards: None with respect to transport regulations

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable.

UN proper shipping name:-

Packing group: -

Special precautions for user: -

15. Regulatory information

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

None.

Chemical Safety assessment:

No CSA.

16. Other information

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

R34:	Causes burns
R37:	Irritating to respiratory system
H290:	May be corrosive to metals
H314:	Causes severe skin burns and eye damage
H335:	May cause respiratory irritation

Abbreviations:

At = Arbejdstilsynet (The Danish Working Environment Authority)
CMR = Carcinogenitet, mutagenicitet og reproduktionstoksicitet
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DNEL = Derived No-Effect level
EC₅₀ = Effect Concentration 50%
LC₅₀ = Lethal Concentration 50%
LD₅₀ = Lethal Dose 50%
PBT= Persistent, Bioaccumulative, Toxic
PNEC = Predicted No-Effect Concentration
vPvB = very Persistent, very Bioaccumulative

Litteratur:

C&L Inventory database = Industrial list
IUCLID = International Uniform Chemical Database Information
ECHA = European Chemical Agency

Training advice/instruction:

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

Additional information:

The safety data sheet is prepared according to REACH Regulation (EC) No. 1907/2006.
The safety data sheet is updated. Latest version: 07.04.2010. Original version 18.05.1998.

Changes since the previous version: Item 1-16.

Classification of the substance or mixture according to CLP *:

The product is not classified as hazardous under CLP.
This product is irritating on repeated or prolonged contact with eyes.

CLP *: This product contains sodium silicate. The following is calculated for STOVEX: MR (molar ratio) > 3.2 and < 40% dry matter. Therefore this product does not have to be labeled.

Label elements:

Labelling according to CLP (1272/2008)

Eurofins Product Testing A/S on the 7th of November 2013 assessed that the product should not be classified by the European Parliament and Council Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).

Recommendation for labelling:

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing (P305 + P351 + P338)

Other hazards: No known.

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

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