

SAFETY DATA SHEET

prepared by ALECTIA A/S



Revision: 7th July 2015
Supersedes: 24th March 2014
Version: 2

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. Product identifier:** **KERABIT TIIVISTYSLIIMA / TAKLIM**
Article no. –
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:** For adhesion of roofing felt and repair of roofing felt and slate roofs as well as filling and sealing at skylights, cowls, downpipes and the like.
- 1.3. Details of the supplier of the safety data sheet:** Nordic Waterproofing Oy, Puistokatu 25-27, 08150 Lohja, Finland,
Tel. 00358 10 851 1000, E-mail: info@kerabit.fi
- 1.4. Emergency telephone number:** In case of a medical emergency following exposure to a chemical call NHS 111 - only available in certain areas of England (outside of these areas call NHS Direct on 0845 4647). The National Poisons Information Service emergency number is 0844 892 0111 (only available to health professionals).

SECTION 2: HAZARDS IDENTIFICATION

- 2.1. Classification of the substance or mixture:**
CLP- classification: Flam. Liq. 3; H226 STOT SE 3; H336 EUH066 (CLP 1272/2008)

2.2. Label elements:		Hazard pictograms Signal word
Contains:	Naphtha (petroleum), hydrotreated heavy.	  WARNING
Hazard statements:	Flammable liquid and vapour. (H226) May cause drowsiness or dizziness. (H336)	
Precautionary statements:	Keep away from heat/sparks/open flames/hot surfaces. — No smoking. (P210) Avoid breathing vapours. (P261) Wear protective gloves. (P280) IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. (P301 + P310) Store in a well-ventilated place. Keep cool. (P403 + P235) Dispose of contents/container to hazardous or special waste collection point. (P501)	
Supplemental information:	Repeated exposure may cause skin dryness or cracking. (EUH066)	

- VOC-labelling:** Product subcategory: Binding primers.
EU limit value for the VOC content of this product (cat. A/h): 750 g/l.
The VOC content of this product is max. 323 g/l.

- 2.3. Other hazards:** This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures:**

REACH reg.no.	CAS no. EC no.	Chemical name	%	CLP- classification	Note:
-	64742-93-4 265-196-4	Oxidized bitumen	65-75	Not classified	-
-	64742-48-9 265-150-3	Naphtha (petroleum), hydrotreated heavy (< 0.1 % benzene)	25-35	Flam. Liq. 3; H226 Asp. Tox 1; H304 STOT SE 3; H336 EUH066	1, 2, 3

For full text of Hazard- and EU Hazard-statements: see section 16.

- 1) The substance is an organic solvent.
- 2) The substance is volatile.
- 3) H304 is not applicable due to the high viscosity of the product.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation:	Fresh air and rest under surveillance. Seek medical advice if symptoms persist. If the person is unconscious, call an ambulance and apply artificial respiration. If breathing, place the person in recovery position and keep warm.
Skin:	Remove contaminated clothes. If necessary use a skin cleansing agent. Wash skin thoroughly with soap and water and apply skin cream. Seek medical advice in case of eczema or other skin discomforts.
Eyes:	Rinse immediately with plenty of water for at least 5 minutes. Open eyes wide. Remove any contact lenses. Seek medical advice if irritation persists.
Ingestion:	Rinse mouth thoroughly and drink water. Do not induce vomiting. Seek medical advice.
Burns:	Rinse with water until the pain stops. Do not attempt to remove adhering bitumen unless absolutely necessary. Remove clothes which do not adhere to the body - seek medical advice; if possible continue rinsing until a doctor takes over the treatment.
Other information:	When obtaining medical advice, show the safety data sheet or label.
4.2. Most important symptoms and effects, both acute and delayed:	Inhalation of vapours may cause respiratory irritation, dizziness and drowsiness, Splashes in the eyes may cause irritation. Defatting to the skin. Repeated exposure may cause skin dryness or cracking.
4.3. Indication of any immediate medical attention and special treatment needed:	No special immediate treatment required.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:	Extinguish with powder, foam, carbon dioxide or water mist. Do not use water jet, as it may spread the fire.
5.2. Special hazards arising from the substance or mixture:	In fire conditions, the product may release oxides of carbon and sulphur.
5.3. Advice for firefighters:	Coordinate with fire in surroundings. In case of larger fires, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. If possible without risk, containers close to fire should be removed or cooled with water/water mist.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures:** Provide adequate ventilation.
Use personal protection.
Be aware of the explosion hazard. Keep away from sources of ignition.
- 6.2. Environmental precautions:** Do not discharge into drains, water courses or onto the ground.
- 6.3. Methods and material for containment and cleaning up:** Collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth, and place in container for disposal according to local regulations.
- 6.4. Reference to other sections:** See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling:** Avoid contact with skin and eyes.
Do not breathe vapour. Provide for effective ventilation if used indoor.
Smoking and naked flames prohibited.
- 7.2. Conditions for safe storage, including any incompatibilities:** Keep in tightly closed packaging. Store in a cool and ventilated place in accordance with local regulations for flammable liquids. Store safely, out of the reach of children and away from food, animal feeding stuff, medicine, etc.
- 7.3. Specific end use(s):** See section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters:****Occupational exposure limit value**

Chemical name	Workplace exposure limits (WELs)		Note
	Long-term exposure limit (8-hour TWA reference period)	Short-term exposure limit (15-minute reference period)	
Naphtha (petroleum), hydrotreated heavy	50 ppm 300 mg/m ³	100 ppm 600 mg/m ³	Sup
Legal basis:	EH40/2005 Workplace exposure limits (second edition, published 2011).		
Note:	Sup: Suppliers information.		
Monitoring procedures:	Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.		

8.2. Exposure controls

Appropriate engineering controls: Provide adequate ventilation.
Running water and eye wash equipment must be available.
Wash hands before breaks, eating, toilet visits and after work. Use mild soap and water and apply skin cream after washing.
Water and means of cleaning should be brought along if the work is not carried out near mobile site huts or permanent common rooms.

**Personal protective equipment
Respiratory protection:**

Normally not required.
Use respiratory protective equipment (full face or half mask) with filter type A2 when working in stagnant air or when applying the product indoor on large surfaces.

Hand protection: Wear protective gloves made of nitrile rubber possibly with a cotton glove underneath.

Eye/face protection: Not required.

Skin protection: Use coveralls, where there is a risk of contamination to such an extent that normal working clothes do not protect against skin contact with the product.

Environmental exposure controls: No special requirements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Appearance:	Black, semi-solid	Vapour pressure:	Not determined
Odour:	Characteristic	Vapour density:	No available data
Odour threshold:	No available data	Relative density:	0.950 g/cm ³
pH:	Not applicable	Solubility(ies):	Soluble in organic solvents Insoluble in water
Melting point/freezing point:	No available data	Partition coefficient n-octanol/water:	No available data
Initial boiling point and boiling range:	> 150°C	Auto-ignition temperature:	No available data
Flash point:	40 °C	Decomposition temperature:	No available data
Evaporation rate:	No available data	Viscosity:	No available data
Flammability (solid, gas):	No available data	Explosive properties:	No available data
Upper/lower flammability or explosive limits:	1-7 vol %	Oxidising properties:	Not applicable

9.2. Other information

Miscible with water: Not miscible

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:	Non-reactive.
10.2. Chemical stability:	The product is stable when used in accordance with the supplier's directions.
10.3. Possibility of hazardous reactions:	Vapours may ignite at temperatures above flash point and may form explosive mixtures with air. Vapours from the product are heavier than air and may spread along floors.
10.4. Conditions to avoid:	Avoid heat, flames and ignition sources.
10.5. Incompatible materials:	Avoid contact with strong oxidising agents.
10.6. Hazardous decomposition products:	Hazardous decomposition products may be released at high temperatures.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Inhalation:	Inhalation of vapours can cause irritation of airways, drowsiness, dizziness, headache, intoxication and delayed response ability and, at high concentrations, unconsciousness. 64742-48-9: LC50 (inhalation, rat, 4h): > 5000 mg/m ³ .
Skin:	Defatting to the skin. 64742-48-9: LD50 (dermal, rabbit): > 2000 mg/kg.
Eyes:	Splashes in the eyes or vapours can cause irritation.
Ingestion:	May cause irritation and discomfort if swallowed. May cause vomiting. 64742-48-9: LD50 (oral, rat): > 2000 mg/kg.
Chronic effects:	Prolonged or repeated inhalation of vapours may cause damage to the central nervous system with symptoms such as drowsiness, headache, concentration and memory problems. Repeated or prolonged contact can cause irritation and eczema. Prolonged and repeated skin contact with the product may possibly cause skin cancer. IARC (International Agency for Research on Cancer) evaluates that some animal tests of painting bitumen solution on skin have resulted in skin cancer.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity:** Only major local spillage of the solvent can pose a risk to water-living organisms. Bitumen is not regarded as harmful to the environment.
64742-48-9:
LC50, fish, 96 h: > 100 mg/l.
EC50, algae, 72 h: > 100 mg/l.
EC50, Daphnia, 48 h: > 100 mg/l.
- 12.2. Persistence and degradability:** Bitumen is very slowly degradable. The organic solvent is biodegradable. The organic solvent evaporates.
- 12.3. Bioaccumulative potential:** It is estimated, that the solvent may bioaccumulate in organisms.
Log Pow: Estimated value of the organic solvent is 2-7.
- 12.4. Mobility in soil:** The organic solvent contains substances that adhere to soil particles.
- 12.5. Results of PBT and vPvB assessment:** This product does not contain any PBT or vPvB substances.
- 12.6. Other adverse effects:** The product floats on water. May spread in the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods:**

Waste, residue etc. should be disposed of in accordance with national and local regulations.

EWC-code: 08 04 09

Absorbents (sand, earth, vermiculite etc.) contaminated by the product, used protective equipment etc. EWC-code: 15 02 02.

SECTION 14: TRANSPORT INFORMATION

The product is not subject to ADR for receptacles < 450 litres cf. 2.2.3.1.5 (viscous substances).

The product is not subject to the provisions of IMDG for the marking, labelling and testing of packages for receptacles < 30 litres cf. 2.3.2.5 (viscous substances). The following statement shall be included in the transport document: "Transport in accordance with 2.3.2.5 of the IMDG Code."

ADR/RID

14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group	14.5. Environmental hazards	Other information
1139	COATING SOLUTION	3	III	None	Hazard identification No. 30

IMDG

14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group	14.5. Environmental hazards	Other information
1139	COATING SOLUTION	3	III	None	EmS: F-E, S-E

ADN

14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group	14.5. Environmental hazards	Other information
1139	COATING SOLUTION	3	III	None	-

IATA

14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group	14.5. Environmental hazards	Other information
1139	COATING SOLUTION	3	III	None	-

14.6. Special precautions for user: None.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant.

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:**
15.2. Chemical safety assessment:

Young people under the age of 18 should not be allowed to work with the product unless the product is used as a necessary part of their education.

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION**Changes:**

Issue 2: Changes in section 1, 2, 3, 4, 6, 7, 8, 10, 11, 12 and 16.

Abbreviations and acronyms:

PBT: Persistent, Bioaccumulative and Toxic.
vPvB: very Persistent and very Bioaccumulative.
VOC: Volatile Organic Compound.
CLP: CLP-Regulation (EC) No 1272/2008 (Classification, Labelling and Packaging).
LC50: Lethal Concentration 50 %.
LD50: Lethal Dose 50 %.
EC50: Effect Concentration 50 %.
Log Pow: Partition coefficient (octanol/water).
Flam. Liq.: Flammable liquid.
Asp. Tox.: Aspiration hazard.
STOT SE: Specific target organ toxicity — single exposure.

Method of classification:

Calculation based on the hazards of the known components.

H-statements:

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

Training advice:

Follow national rules applying for work with bitumen products. The user must be instructed in the proper work procedure and be familiar with the contents of this safety data sheet.

Further information:

This product must be stored, handled and used in accordance with good industrial work hygiene and safety practice.

Person responsible for the Safety Data Sheet (e-mail):

Susanne Brandt Hansen (sbha@alectia.com)

Disclaimer:

As we do not know nor can control the specific work conditions of the user, the user are cautioned to take the necessary provisions in order to comply with the rules in force. This safety data sheet is devised on the information presented by the supplier as well as under the existing EU and national laws.