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

1.1	Product identifier	Enkolan
1.2	Relevant identified uses of the substance or mixture	and uses advised against
	Use of the substance/mixture:	Liquid applied waterproofing
1.3	Details of the supplier of the safety data sheet:	ENKE-Werk Johannes Enke GmbH & Co. KG
	Street:	Hamburger Str. 16
	Place:	40221 Düsseldorf, Germany
	Telephone:	+49 (0) 211 / 30 40 74
	Telefax	+49(0)211/ 39 37 18
	E-mail:	info@enke-werk.de
	Internet:	www.enke-werk.de/en
	Responsible department:	On weekdays between 7 a.m. and 4 p.m.
1.4	Emergency telephone:	Poison Information Centre (24h):
		+49 (0) 551 / 19 240

SECTION 2: HAZARD IDENTIFICATION

2.1	Classification of the substance or mixture	
	Regulation (EC) No. 1272/2008	
	This mixture is not classified as hazardous in accordance	ce with Regulation (EC) No. 1272/2008.
2.2	Label elements	
	Regulation (EC) No. 1272/2008	
	Special labelling of certain mixtures	
	EUH208	Contains octhilinone (ISO); 2-octyl-2H-isothiazol-
		3-one. May produce an allergic reaction.
	EUH210	Safety data sheet available on request
2.3	Other hazards	The product hydrolyses quickly in the presence
		of water to: Polymers and Methanol (CAS 67-56-
		1).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

	Chemical characterization Mixture of silane-terminated polyurethanes and fillers									
Hazardous components										
CAS No Chemical name										
	EC No	Index No	REACH No							
	Classification according t									
2768-02-7	trimethoxyvinylsilane									
	220-449-8									
	Flam. Liq. 3, Acute Tox. 4; H226 H332									
67-56-1	methanol			< 0,1 %						
	200-659-6	603-001-00-X								
	Flam. Liq. 2, Acute Tox. 3	OT SE 1; H225 H331 H311 H301 H370								

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SECTION 4: FIRST AID MEASURES



4.1	Description of first aid measures					
	After inhalation	Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.				
	After contact with skin	After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.				
	After contact with eyes	Rinse immediately carefully and thoroughly with eyebath or water. In case of eye irritation consult an ophthalmologist.				
	After ingestion	Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.				
4.2	Most important symptoms and effects, both acute and delayed	No information available.				
4.3	Indication of any immediate medical attention and special treatment needed	Treat symptomatically. Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.				

SECTION 5: FIREFIGHTING MEASURES

5.1	Extinguishing media	
	Suitable extinguishing media	Co-ordinate fire-fighting measures to the fire surroundings. Water mist, Extinguishing powder, alcohol resistant foam, Carbon dioxide, Sand.
5.2	Special hazards arising from the substance or mixture	Non-flammable. In case of fire may be liberated: Nitrogen oxides (NOx)
5.3	Advice for firefighters	In case of fire: Wear self-contained breathing apparatus.
	Additional information	Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	Avoid contact with eyes and skin. Avoid breathing dust/fume/gas/mist/vapours/spray.
6.2	Environmental precautions	Do not allow to enter into surface water or drains.
6.3	Methods and material for containment and cleaning up	Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.
6.4	Reference to other sections	Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

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SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	
	Advice on safe handling	Provide adequate ventilation as well as local exhaustion at critical locations. Special danger of slipping by leaking/spilling product. Keep away from clothing as well as other incompatible materials. (SECTION 10: Stability and reactivity)
	Advice on protection against fire and explosion	The product hydrolyses quickly in the presence of water to: Polymers and Methanol (CAS 67-56-1). Vapours can form explosive mixtures with air. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.
7.2	Conditions for safe storage, including any inc	compatibilities
	Requirements for storage rooms and vessels	Keep container tightly closed in a cool, well-ventilated place.
	Advice on storage compatibility	No special measures are necessary.
	Further information on storage conditions	Protect from moisture. Keep/Store only in original container.
7.3	Specific end use(s)	Liquid applied waterproofing

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control pa Exposure	arameters limits (EH40)							
	CAS No	Substance		ppl	mg/m³	fibres/ml	Category	Origin	
	67-56-1	Methanol		200	266		TWA (8 h)	WEL	
				250	333		STEL (15 min)	WEL	
	values	advice on limit	The product hydroly Methanol (CAS 67-5		dy in the	presence	e of water to: Pol	ymers and	
8.2	·								
		and hygiene	Take off contaminated clothing. Wash hands before breaks and after work.						
		orotoction	When using do not eat or drink.						
	measures Eye/face protection Hand protection		Wear eye protection/face protection. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Our recommendation is as follows: Suitable materials for prolonged, direct contact (at least protection index 6, corresponding to> 480 minutes permeation time according to EN 374): Neoprene®, Viton®, PVC, butyl or nitrile rubber. Dispose of contaminated gloves. With proper, optimized operation, only short-term contact and liquid splashes are to be expected, therefore, according to DGUV Information 212-007, a glove with a minimum protection class of 1 (<10 min) is sufficient. It must be ensured that the gloves are changed at short notice in case of chemical contact.						
	Skin prote	ction	Wear suitable protec	ctive clot	ning.				
	Respirator	y protection	In case of inadequat	e ventilat	ion wear	respirato	ory protection.		

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Physical State	Liquid
	Colour	Grey
	Odour	Menthol
		Test Method
	pH-Value	not determined
	Changes in the physical state	
	Melting point:	not determined
	Initial boiling point and boiling range:	not determined
	Flash point:	132°C
	Flammability	
	Solid:	not applicable
	Gas:	not applicable
	Lower explosion limits:	not determined
	Upper explosion limits:	not determined
	Auto-ignition temperature	
	Solid:	not applicable
	Gas:	not applicable
	Decomposition temperature:	not determined
	Oxidizing properties	
	Not oxidising.	
	Vapour pressure:	not determined
	Density (at 23 °C):	1,3 g/cm³
	Water solubility:	easily soluble
	Solubility in other solvents	
	not determined	
	Partition coefficient:	not determined
	Viscosity / dynamic: (at 20 °C)	~ 8000 mPa·s
	Vapour density:	not determined
	Evaporation rate:	not determined
9.2	Other information	
	Solid content:	not determined

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	No hazardous reaction when handled and stored according to provisions.
10.2	Chemical stability	The product is stable under storage at normal ambient temperatures.
10.3	Possibility of hazardous reactions	No known hazardous reactions.
10.4	Conditions to avoid	None
10.5	Incompatible materials	Reacts with: Water, Acid and Base.
		Formation of: Methanol (CAS 67-56-1)
10.6	Hazardous decomposition products	No known hazardous decomposition products

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SECTION 11: TOXICOLOGICAL INFORMATION

CAS No	Chemical name	Chemical name							
	Exposure route	Dose		Species	Source	Method			
2768-02-7	trimethoxyvinylsilane								
	oral	LD50 mg/kg	7120	Rat	OECD 401				
	dermal	LD50 mg/kg	> 3460	Rabbit	OECD 402				
	inhalative (4 h) vapour	LC50 mg/l	16,79	Rat					
	inhalative aerosol	ATE	1,5 mg/l						
	inhalative (4 h) gas	LC50 ppm	2773	Rat	OECD 403				
67-56-1	methanol								
	oral	ATE mg/kg	100						
	dermal	ATE mg/kg	300						
	inhalative vapour	ATE	3 mg/l						
	inhalative aerosol	ATE	0,5 mg/l						

SECTION 12: ECOLOGICAL INFORMATION

CAS No	Chemical name								
		Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species		Source	Method	
2768-02-7 trimethoxyvinylsilane									
	Acute fish toxicity	LC50	191 mg/l	96 h					
	Acute algae toxicity	ErC50	210 mg/l	72 h					
	Acute crustacea toxicity	EC50	169 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202		
	Crustacea toxicity	3,		21 d	Daphnia magna (Big water flea)				
Persistence	e and degrada	bility			The product has not been tested.				
CAS No	Chemical name								
	Method				,		d	Source	<u>,</u>
	Evaluation								
2768-02-7									
	Biochemical	oxygen den	nand (BOD)		51%		28		
	Moderately/	partially bio	degradable.						
Bioaccumu	lative potenti	al			The product	t has not k	peen testec	l.	
	Persistence CAS No 2768-02-7	Acute fish toxicity Acute algae toxicity Acute crustacea toxicity Crustacea toxicity Persistence and degrada CAS No Chemical name Method Evaluation 2768-02-7 trimethoxyviny Biochemical Moderately/	Acute fish toxicity Acute algae toxicity Acute crustacea toxicity Crustacea toxicity Crustacea toxicity CAS No Chemical name Method Evaluation 2768-02-7 Biochemical oxygen den	Acute fish toxicity Acute algae toxicity	Acute fish toxicity Acute algae toxicity Acute EC50 210 mg/l 72 h Acute crustacea toxicity Crustacea toxicity Crustacea toxicity Persistence and degradability CAS No Chemical name Method Evaluation 2768-02-7 trimethoxyvinylsilane Biochemical oxygen demand (BOD) Moderately/partially biodegradable.	Acute fish toxicity Acute algae toxicity Acute EC50 210 mg/l 72 h Selenastrum capricornuture c	Acute fish toxicity Acute algae ErC50 210 mg/l 72 h Selenastrum capricornutum Acute EC50 169 mg/l 48 h Daphnia magna (Big water flea) Crustacea toxicity Crustacea toxicity Crustacea and degradability CAS No Chemical name Method Value Evaluation 2768-02-7 trimethoxyvinylsilane Biochemical oxygen demand (BOD) Moderately/partially biodegradable.	Acute fish toxicity Acute algae algericannical algericann	Acute fish toxicity

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12. 4	Mobility in soil	The product has not been tested.
12.5	Results of PBT and vPvB assessment	The product has not been tested.
12. 6	Other adverse effects	No information available.
	Further information	Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	
	Advice on disposal	Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Adhering to the official regulations, it can be disposed of in appropriate incinerator. Cured residual material can be disposed of with household waste.
	Disposal of	
	packaging:	Containers have to be emptied completely and free of drops after final product removal. Emptied packages can be returned to the partners of Kreislaufsystem Blechverpackungen Stahl (Recycling system for metal containers). Collection points are provided by the ENKE company as user of the mark.
	Waste disposal 080410	
	number of waste	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE
	from	(MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS),
	residues/unused products	ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including
	products	waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09
	Waste disposal 080410	
	number of used product	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND
		PRINTING INKS; wastes from MFSU of adhesives and sealants (including
		waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09
	Contaminated packaging	Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: TRANSPORT INFORMATION

Land	Land transport (ADR/RID)		
14.1	UN number:	No dangerous good in sense of this transport regulation.	
14.2	UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3	Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4	Packing group:	No dangerous good in sense of this transport regulation.	
Inland waterways transport (ADN)			
14.1	UN number:	No dangerous good in sense of this transport regulation.	
14.2	UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3	Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4	Packing group:	No dangerous good in sense of this transport regulation.	
Marine transport (IMDG)			
14.1	UN number:	No dangerous good in sense of this transport regulation.	
14.2	UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3	Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4	Packing group:	No dangerous good in sense of this transport regulation.	
Air transport (ICAO-TI/IATA-DGR)			
14.1	UN number:	No dangerous good in sense of this transport regulation.	

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14.2	UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3	Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4	Packing group:	No dangerous good in sense of this transport regulation.
14.5	Environmental hazards	
	ENVIRONMENTALLY HAZARDOUS:	no
14.6	Special precautions for user	No information available.
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
	I OI Marbol and the IBC Code	

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/ legislation specific for the substance or mixture	
	EU regulatory information	
	Additional information To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC	
	National regulatory information	
	Water contaminating class (D): 1 - slightly water contaminating Causes allergic hypersensitivity reactions.	
15.2	Chemical safety assessment	Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service
LC50:	Lethal concentration, 50%
LD50:	Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H301	Toxic if swallowed.		
H311	Toxic in contact with skin		
H331	Toxic if inhaled		
H332	Harmful if inhaled		
H370	Causes damage to organs		
EUH208	Contains octhilinone (ISO); 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.		
EUH210	Safety data sheet available on request.		
Last update date (ENKE-Werk) 05.07.2018			
Moy Materials Ltd version prepared by Martin Bidewell		Martin Bidewell	

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.