


Safety Data Sheet

Enketop

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

1.1	Product identifier	Enketop
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Use of the substance/mixture:	Balcony coating
	Uses advised against	Do not use for sputtering or spraying.
1.3	Details of the supplier of the safety data sheet:	
	Street:	ENKE-Werk Johannes Enke GmbH & Co. KG
	Place:	Hamburger Str. 16
	Telephone:	40221 Düsseldorf, Germany
	Telefax:	+49 (0) 211 / 30 40 74
	E-mail:	+49(0)211/ 39 37 18
	Internet:	info@enke-werk.de
	Responsible department:	www.enke-werk.de/en
		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	
	Hazard categories:	
	Serious eye damage/eye irritation:	Eye Irrit. 2
	Respiratory or skin sensitisation	Resp. Sens. 1
	Respiratory or skin sensitisation:	Skin Sens. 1
	Hazardous to the aquatic environment:	Chronic 3
	Hazard Statements:	
	May cause an allergic skin reaction.	
	Causes serious eye irritation.	
	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
	Harmful to aquatic life with long lasting effects.	
2.2	Label elements	
	Regulation (EC) No. 1272/2008	
	Hazard components for labelling	Aromatic polyisocyanate prepolymer 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate Isophorone diisocyanate homopolymer 4-methyl-m-phenylene diisocyanate, toluene-2,4-di-isocyanate
	Signal word:	Danger
	Pictograms:	
		
	Hazard statements	
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H412	Harmful to aquatic life with long lasting effects

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Precautionary statements	
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
Special labelling of certain mixtures	
EUH204	Contains isocyanates. May produce an allergic reaction.
2.3 Other hazards	No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures																																																															
Chemical characterization																																																															
Mixture of a polyisocyanates-prepolymer, additives and pigments																																																															
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Full text of H and EUH statements: see section 16.																																																															

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.

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		Medical treatment necessary.
	After contact with skin	After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse.
	After contact with eyes	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
	After ingestion	Rinse mouth immediately and drink plenty of water.
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.

SECTION 5: FIREFIGHTING MEASURES

5.1	Extinguishing media Suitable extinguishing media	Powder, Foam, Water spray jet, Carbon dioxide (CO ₂).
5.2	Special hazards arising from the substance or mixture	In case of fire may be liberated: Carbon monoxide, Nitrogen oxides (NO _x); Possible in traces: Isocyanates, Hydrogen cyanide (hydrocyanic acid)
5.3	Advice for firefighters	Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.
	Additional information	Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. 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	Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.
6.2	Environmental precautions	Do not allow uncontrolled discharge of product into the environment. Danger of explosion
6.3	Methods and material for containment and cleaning up	Pick up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Put into waste containers after 1 hour. Fill collected, contaminated material into clean and labelled "open-top-drums". Do not seal gas-tight. Danger of burst! Keep humid and store safely in the open for 1-2 weeks. Treat the recovered material as prescribed in the section on waste disposal.

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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	If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.
	Advice on protection against fire and explosion	Keep away from sources of ignition - No smoking.
7.2	Conditions for safe storage, including any incompatibilities	
	Requirements for storage rooms and vessels	Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
7.3	Specific end use(s)	Balcony coating

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters																																				
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8.2	Exposure controls																																				
	Appropriate engineering controls	If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.																																			
	Protective and hygiene	Remove contaminated, saturated clothing immediately. Draw up and																																			

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measures	observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.
Eye/face protection	Suitable eye protection: goggles.
Hand 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 protection	Wear suitable protective clothing.
Respiratory protection	In case of inadequate ventilation wear respiratory protection. Fresh air mask. Short term filler device: A2 - P2.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Physical State	Liquid
	Colour	Grey
	Odour	weak, characteristic
		Test Method
	pH-Value	Not determined
	Changes in the physical state	
	Melting point:	not determined
	Initial boiling point and boiling range:	> 100 °C
	Flash point:	48 °C DIN 22719
	Sustaining combustion:	Not sustaining combustion
	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 20 °C):	1,4 g/cm ³
	Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.

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	Solubility in other solvents	
	not determined	
	Partition coefficient:	not determined
	Viscosity / dynamic: (at 20 °C)	7000 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 chemically stable under recommended conditions of storage, use and temperature.
10.3	Possibility of hazardous reactions	Exothermic reaction with: Amines, Alcohols; Reaction with water or humidity may form CO ₂ . Risk of bursting!
10.4	Conditions to avoid	Keep away from heat.
10.6	Hazardous decomposition products	No hazardous reaction when handled and stored according to provisions. No known hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects
	Acute toxicity

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
37273-56-6	Aromatic polyisocyanate prepolymer				
	oral	LD50 mg/kg	> 5000	Rat	
	inhalative (4 h) aerosol	LC50 mg/l	>3,820		
1330-20-7	Xylene				
	dermal	ATE mg/kg	1100		
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		
64742-82-1	Hydrocarbons, C9 - C12, n- alkanes, iso- alkanes, cyclic, aromatic (2-25 %)				
	oral	LD50 mg/kg	>15000	Rat	OECD 401
	dermal	LD50 mg/kg	- 3400	Rabbit	OECD 402
53880-05-0	Isophorone diisocyanate homopolymer				
	oral	LD50 mg/kg	> 14000	Rat	
	inhalative (4 h) aerosol	LC50	> 5 mg/l	Rat	OECD 403
584-84-9	4-methyl-m-phenylene diisocyanate, toluene-2,4-di-isocyanate				
	oral	LD50 mg/kg	5800	Rat	RTECS
	dermal	LD50 mg/kg	>19000	Rabbit	RTECS
	inhalative (4 h) vapour	LC50	0,1 mg/l	Rat	RTECS
	inhalative aerosol	ATE	0,05 mg/l		

Irritation and corrosivity

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Further information

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	
	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64742-82-1	Hydrocarbons, C9 - C12, n- alkanes, iso- alkanes, cyclic, aromatic (2-25 %)					
	Acute fish toxicity	LC50	10 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203
	Acute algae toxicity	ErC50	4,6 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	10 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
53880-05-0	Isophorone diisocyanate homopolymer					
	Acute fish toxicity	LC50 mg/l	> 1,51	96 h	Cyprinus carpio (Common Carp)	
	Acute algae toxicity	ErC50 mg/l	> 3,1	72 h	Scenedesmus subspicatus	OECD 201
	Acute crustacea toxicity	EC50 mg/l	> 3,36	48 h	Daphnia magna (Big water flea)	OECD 202
	Acute bacteria toxicity	> 10000 mg/l)		3 h	Activated sludge	OECD 209
584-84-9	4-methyl-m-phenylene diisocyanate, toluene-2,4-di-isocyanate					
	Acute fish toxicity	LC50	164 mg/l	96 h	Pimephales promelas	
	Acute crustacea toxicity	EC50 mg/l	12,5	48 h	Daphnia magna	

12.2 Persistence and degradability The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
53880-05-0	Isophorone diisocyanate homopolymer			
	OECD-301 F	0 %	28	
	Poorly biodegradable.			

12.3 Bioaccumulative potential The product has not been tested.
 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 Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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Advice on disposal	Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. 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 number of waste from residues/unused products	080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste.
Waste disposal number of used product	080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste
Contaminated packaging	Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: TRANSPORT INFORMATION

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.
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

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): 2 - clearly water contaminating
	Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
	Water contaminating class (D):	2 - clearly water contaminating

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	Skin resorption/Sensitization:	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.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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Moy Materials Ltd version prepared by	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.