Safety Data Sheet Enke Glass Primer



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

1.1	Trade name:	Glass Primer			
1.2	Relevant identified uses of the substance or mixture and uses advised against				
	Use of the substance/mixture:	Adhesion promotor on glass and ceramics			
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			
	Tel:	+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	
	GB CLP Regulation	
		Flam. Liq. 2; H225
		Eye Irrit. 2; H319
		STOT SE 3; H336
	Full text of hazard statements:	see SECTION 16.
2.2	Label elements	
	GB CLP Regulation	
	Hazard components for labelling	propan-2-ol; isopropyl alcohol; isopropanol
	Signal word:	Danger
	Hazard statements	
	H225	Highly flammable liquid and vapour.
	H319	Causes serious eye irritation.
	H3369	May cause drowsiness or dizziness.
	Precautionary statements	
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P233	Keep container tightly closed.
	P261	Avoid breathing
		dust/fume/gas/mist/vapours/spray.
2.3	Other hazards	No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2	Mixtures						
	Chemical characterization						
	Mi>	kture of silar	ne and 2- propanol				
	Hazardous components						
		CAS No Chemical name Quan				Quantity	
			EC No	Index No	REACH No		

Safety Data Sheet Enke Glass Primer



	Classification	n (GB CLP Regulati	on)		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			90 - 100 9	
	200-661-7		603-117-00-0		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336				
82985-35-1	Bis(trimetho:	xysilylpropyl)amine)		1 - < 5
	280-084-5			01-2119969956-12	
	Eye Dam. 1; H	H318			
Full text of H	and EUH sta	atements: see s	section 16.		
Specific Con	ıc. Limits, M	-factors and A	TE		
CAS No	EC No	Chemical name			Quanti
	C	c. Limits, M-factors	and ATE		
	Specific Cond	e. Elittits, i i factors			
67-63-0	200-661-7		propyl alcohol; isopropanc)	90 - 100
67-63-0	200-661-7	propan-2-ol; isop			90 - 100
67-63-0 82985-35-1	200-661-7	propan-2-ol; isop	propyl alcohol; isopropanc pral: LD50 = 5280 mg/kg		90 - 100

SECTION 4: FIRST AID MEASURES

4.1	Description of first aid measures	
	After inhalation	Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
	After contact with skin	Wash with plenty of water. Take off 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 1 glass of water. Do NOT induce vomiting. Aspiration hazard! Call a physician in any case!
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	Carbon dioxide (CO2), alcohol resistant foam, Extinguishing powder.
	Unsuitable extinguishing media	Water.
5.2	Special hazards arising from the substance or mixture	Flammable. Vapours can form explosive mixtures with air. In case of fire, the following can be released: Carbon monoxide, carbon dioxide, noxious gases/vapors.
5.3	Advice for firefighters	In case of fire: Wear self-contained breathing apparatus.
	Additional information	Use water spray jet to protect personnel and to cool endangered containers. Suppress

Safety Data Sheet Enke Glass Primer



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		
	General advice	Remove all sources of ignition. 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 clea	aning up	
	Other information	Absorb with liquid-binding material (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	

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. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.
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)	Adhesion promotor on glass and ceramics

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters Exposure limits (EH40)							
	CAS No	Substance		ppm	mg∕m³	fibres/ml	Category	Origin
	67-63-0	Propan-2-ol		400	999		TWA (8 h)	WEL
				500	1250		STEL (15 min)	WEL
	DNEL/DI	MEL values						

Safety Data Sheet Enke Glass Primer



	CAS No	CAS No Substance				
	DNEL type			Exposure route Effect Value		
	67-63-0	propan-2-ol; isopro	pyl alcohol; isopropanol			
	Consumer [ONEL, long-term		oral	systemic	26 mg/kg bw/day
	Consumer [DNEL, long-term		dermal	systemic	319 mg/kg bw/day
	Worker DN	EL, long-term		dermal	systemic	888 mg/kg bw/day
	Consumer [DNEL, long-term		inhalation	systemic	89 mg/m³
8.2	Exposure					
0.2	Appropria controls	ate engineering	If handled uncovered, a be used. Do not breathe ures, such as personal p	e gas/fumes/vap	our/spray.	t ventilation have to
		protection	Suitable eye protection:		ment	
	Hand prot	lection	When handling with che with the CE-label includ protective gloves resist the specific working pla substances. For special resistance to chemicals with the supplier of thes Our recommendation is contact (at least protect permeation time accord nitrile rubber. Dispose of operation, only short-te therefore, according to minimum protection cla that the gloves are char	ing the four con ant to chemicals ace concentratio purposes, it is re of the protectiv se gloves. as follows: Suita tion index 6, cor ding to EN 374): of contaminated rm contact and DGUV Informati ass of 1 (<10 min)	trol digits. The must be chosen and quantity ecommended to able materials for responding to Neoprene®, Vito gloves. With poliquid splashes on 212-007, a good solution. It	quality of the en as a function of of hazardous to check the oned above together for prolonged, direct > 480 minutes ton®, PVC, butyl or roper, optimized are to be expected, glove with a must be ensured
	Skin prote	ection	Wear suitable protectiv	e clothing.		
	Respirato	ry 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	colourless
	Odour	alcoholic
	Changes in the physical state	
	Melting/Freezing point:	not determined
	Boiling point, Initial boiling point and boiling range:	82 °C
	Flash point:	12 °C
	Flammability	
	Solid/liquid:	not applicable
	Gas:	not applicable
	Lower explosion limits:	2 vol. %
	Upper explosion limits:	12 vol. %
	Self-ignition temperature	
	Solid:	not applicable
	Gas:	not applicable
	Decomposition temperature:	not determined

Safety Data Sheet Enke Glass Primer



	pH-Value:	not determined
	Viscosity / dynamic: (at 20 °C)	2 mPa·s
	Water solubility:	The study does not need to be conducted
		because the substance is known to be
		insoluble in water.
	Solubility in other solvents	not determined
	Partition coefficient n-octanol/water:	not determined
	Vapour pressure (at 20 °C):	41,6 hPa
	Density (at 20 °C):	0,8 g/cm³
	Relative vapour density:	not determined
9.2	Other information	
	Information with regard to physical hazard classes	
	Oxidizing properties	
	Not oxidising.	
	Other safety characteristics	
	Solid content:	not determined
	Evaporation rate:	not determined
	Further Information	

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Flammable, Ignition hazard.
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	Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.
10.5	Incompatible materials	No information available.
10.6	Hazardous decomposition products	No known hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

CAS No	icity Chemical name						
0,10110		Dose		Snor	cios	Source	Method
67-63-0	Exposure route Dose Species Source Method propan-2-ol; isopropyl alcohol; isopropanol						
07-03-0							
	oral	LD50 mg/kg	5280	Rat			
	dermal	LD50 mg/kg	12800	Rab	bit		
82985-35-1	-1 Bis(trimethoxysily propyl)amine						
	oral	LD50 mg/kg	3780	Rat		OECD 401	
	dermal	LD50 mg/kg	11865	Rab	bit	OECD 402	
Irritation a	nd corrosivity				Causes s	serious eye irritation	
STOT-single exposure					May cause drowsiness or dizziness.		
	al information on tests				The mix	ture is classified as h on (EC) No 1272/200	nazardous accord



Safety Data Sheet Enke Glass Primer

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity									
	-	t is not: Ecotoxic.								
	CAS No	Chemical name								
		Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
	67-63-0	propan-2-ol; isopropyl alcohol; isopropanol								
		Acute fish toxicity	LC50 mg/l	9640	96 h	Pimephales promelas (fathead minnow)				
		Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Desmodesmus subspicatus				
		Acute crustacea toxicity	EC50 mg/l	13299	48 h	Daphnia magna (Big water flea)				
		Acute bacteria toxicity	(EC50 mg/l)	5175		Pseudomonas putida				
	82985-35-1	Bis(trimethoxysilylpropyl)amine								
		Acute fish toxicity	LC50	130 mg/l	96 h	Salmo trutta fario (L) (Freshwater trout)	OECD 203			
		Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	OECD 201			
		Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna (Big water flea)	OECD 202			
10.0	Persistence and degradability									
12.2	Persistence	and degradability								
12.2		e and degradability t has not been tested	d.							
12.2			d.							
12.2	The product	t has not been tested	J.			Value	d Sou	Jrce		
12.2	The product	t has not been tested Chemical name	J.			Value	d Sou	urce		
12.2	The product	t has not been tested Chemical name Method Evaluation Bis(trimethoxysilylprop	oyl)amine					urce		
12.2	The product	t has not been tested Chemical name Method Evaluation Bis(trimethoxysilylprop OECD 301 D (Close	oyl)amine d Bottle T	- est)		Value 17 %	d Sor	urce		
	The product CAS No 82985-35-1	t has not been tested Chemical name Method Evaluation Bis(trimethoxysilylprop OECD 301 D (Close Not readily biodegr	oyl)amine d Bottle T	est)		17 %	28			
12.3	The product CAS No 82985-35-1 Bioaccumu	t has not been tested Chemical name Method Evaluation Bis(trimethoxysilylprop OECD 301 D (Close Not readily biodegr lative potential	oyl)amine d Bottle T	est)		17 % The product has no	28 t been test	red.		
12.3 12.4	The product CAS No 82985-35-1 Bioaccumu Mobility in state	t has not been tested Chemical name Method Evaluation Bis(trimethoxysilylprop OECD 301 D (Close Not readily biodegr lative potential soil	pyl)amine d Bottle T adable	est)	1	17 % The product has no The product has no	28 t been test t been test	red. red.		
12.3 12.4	The product CAS No 82985-35-1 Bioaccumu Mobility in state	t has not been tested Chemical name Method Evaluation Bis(trimethoxysilylprop OECD 301 D (Close Not readily biodegr lative potential	pyl)amine d Bottle T adable	est)	ר ר	17 % The product has no The product has no The substances in t	28 t been test t been test he mixture	ed. ed. do not meet the		
12.3 12.4	The product CAS No 82985-35-1 Bioaccumu Mobility in state	t has not been tested Chemical name Method Evaluation Bis(trimethoxysilylprop OECD 301 D (Close Not readily biodegr lative potential soil	pyl)amine d Bottle T adable	est)	 	17 % The product has no The product has no The substances in t PBT/vPvB criteria a	28 t been test t been test he mixture ccording t	ed. ed. do not meet the o UK REACH.		
12.3 12.4 12.5	The product CAS No 82985-35-1 Bioaccumu Mobility in s Results of F	t has not been tested Chemical name Method Evaluation Bis(trimethoxysilylprop OECD 301 D (Close Not readily biodegr lative potential soil PBT and vPvB asses	oyl)amine d Bottle T adable sment	est)	 	17 % The product has no The product has no The substances in t PBT/vPvB criteria a The product has no	28 t been test t been test he mixture ccording t t been test	ed. ed. do not meet the o UK REACH. ed.		
12.2 12.3 12.4 12.5 12.6.	The product CAS No 82985-35-1 Bioaccumu Mobility in s Results of F	t has not been tested Chemical name Method Evaluation Bis(trimethoxysilylprop OECD 301 D (Close Not readily biodegr lative potential soil	oyl)amine d Bottle T adable sment	Test)	 	17 % The product has no The product has no The substances in the PBT/vPvB criteria a The product has no This product does r	28 t been test t been test he mixture ccording t t been test not contain	ed. ed. do not meet the o UK REACH. ed. a substance the		
12.3 12.4 12.5	The product CAS No 82985-35-1 Bioaccumu Mobility in s Results of F	t has not been tested Chemical name Method Evaluation Bis(trimethoxysilylprop OECD 301 D (Close Not readily biodegr lative potential soil PBT and vPvB asses	oyl)amine d Bottle T adable sment	est)	ר ר ר ר ר ר ר	17 % The product has no The product has no The substances in t PBT/vPvB criteria a The product has no This product does r has endocrine disru	28 t been test t been test he mixture ccording t t been test not contain pting prop	ed. do not meet the o UK REACH. ed. a substance the erties with		
12.3 12.4 12.5	The product CAS No 82985-35-1 Bioaccumu Mobility in s Results of F	t has not been tested Chemical name Method Evaluation Bis(trimethoxysilylprop OECD 301 D (Close Not readily biodegr lative potential soil PBT and vPvB asses	oyl)amine d Bottle T adable sment	est)	ר ר ר ר ר ר	17 % The product has no The product has no The substances in the PBT/vPvB criteria a The product has no This product does r has endocrine disru espect to non-targ	28 t been test t been test he mixture ccording t t been test not contain pting prop et organisr	ed. do not meet the o UK REACH. ed. a substance tha erties with ms as no		
12.3 12.4 12.5	The product CAS No 82985-35-1 Bioaccumu Mobility in s Results of F	t has not been tested Chemical name Method Evaluation Bis(trimethoxysilylprop OECD 301 D (Close Not readily biodegr lative potential soil PBT and vPvB asses	oyl)amine d Bottle T adable sment	-est)	ר ד ד ד ד ר ר ר ר ר ר ר ר ר ר ר ר ר ר ר	17 % The product has no The product has no The substances in t PBT/vPvB criteria a The product has no This product does r has endocrine disru	28 t been test t been test he mixture ccording t t been test not contain pting prop et organise the criteria	ed. do not meet the o UK REACH. ed. a substance tha erties with ms as no		

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods		
	· ·	Do not allow to enter into surface water or drains. Dispose of waste according to	
	recommendations	applicable legislation. Containers have to be emptied completely and free of drops after final product removal. Emptied packages can be returned to the	

Safety Data Sheet Enke Glass Primer



	partners of Kreislaufsystem Blechverpackungen Stahl (Recycling system for metal containers). Collection points are provided by the ENKE company as user of the mark.
List of Wastes Code - 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
List of Wastes Code - 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	Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: TRANSPORT INFORMATION

Land tra	ansport (ADR/RID)	
14.1	UN number:	UN1263
14.2	UN proper shipping name:	Paint
14.3	Transport hazard class(es):	3
14.4	Packing group:	
	Hazard label:	3
	Classification code:	F1
	Special Provisions:	163 640D 650
	Limited quantity:	5 L
	Transport category:	2
	Hazard No:	33
	Tunnel restriction code:	D/E
	Other applicable information (land	E2
	transport)	
	vaterways transport (ADN)	
14.1	UN number:	UN1263
14.2	UN proper shipping name:	Paint
14.3	Transport hazard class(es):	3
14.4	Packing group:	
	Hazard label:	3
	Classification code:	F1
	Special Provisions:	163 640D 650
	Limited quantity:	5L
	Expected quantity	E2
14.5	Environmental hazards	
	ENVIRONMENTALLY HAZARDOUS:	No
14.6	Special precautions for user	
	Warning:	Combustible liquid.
14.7.	Maritime transport in bulk according to IMO instruments	Not applicable

Safety Data Sheet Enke Glass Primer



SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/ legislation specific for the substance or mixture					
	EU regulatory information					
	Restrictions on use (REACH, annex XVII):	Entry 3, Entry 40, Entry 75				
	Additional information	To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC				
	National regulatory information					
	Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).				
	Water hazard class (D):	1 - slightly hazardous to water				
15.2.	Chemical safety assessment	Chemical safety assessments for substances in this mixture were not carried out.				

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

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

Classification for mixtu	res and used evaluation method according to GB CLP Regulation
Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

Relevant H and EUH	statements (number and full text)
H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	Causes serious eye irritation.

Last update date (ENKE-Werk)	10.02.2022
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.