


Safety Data Sheet

Universal Primer 2K, Component A

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

1.1	Product identifier	Universal Primer 2K, Component A
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Use of the substance/mixture:	2-component Primer / Adhesion promotor
	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 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 number:	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:	
	Flammable liquid	Flam. Liq. 3
	Acute toxicity	Acute to. 4
	Acute toxicity	Acute to. 4
	Skin corrosion/irritation:	Skin Irrit. 2
	Serious eye damage/eye irritation:	Eye Irrit. 2
	Specific target organ toxicity - single exposure:	STOT SE 3
	Specific target organ toxicity - repeated exposure:	STOT RE 2
	Aspiration hazard:	Asp. Tox. 1
	Hazard Statements:	
	Flammable liquid and vapour.	
	May be fatal if swallowed and enters airways. Harmful in contact with skin or if inhaled.	
	Causes skin irritation.	
	Causes serious eye irritation.	
	May cause respiratory irritation.	
	May cause damage to organs through prolonged or repeated exposure.	
2.2	Label elements	
	Regulation (EC) No. 1272/2008	
	Hazard components for labelling	Xylene
	Signal word:	Danger
	Pictograms:	
		
	Hazard statements	
	H226	Flammable liquid and vapour.
	H304	May be fatal if swallowed and enters airways.
	H312+H332	Harmful in contact with skin or if inhaled.
	H315	Causes skin irritation

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	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
	H373	May cause damage to organs through prolonged or repeated exposure
Precautionary statements		
	P101	If medical advice is needed, have product container or label at hand.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P262	Do not get in eyes, on skin, or on clothing.
	P271	Use only outdoors or in a well-ventilated area.
	P331	Do NOT induce vomiting.
2.3	Other hazards	
	No information available.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2	Mixtures																		
	Chemical characterization																		
	polymer solution in xylene																		
	Hazardous components																		
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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
	General information
	Take off immediately all contaminated clothing and wash it before reuse.
	After inhalation
	Provide fresh air. When in doubt or if symptoms are observed, get medical advice.
	After contact with skin
	Pick up mechanically and wash immediately with plenty of water and soap.
	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. 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.

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4.3	Indication of any immediate medical attention and special treatment needed	Treat symptomatically. Do NOT induce vomiting. Aspiration hazard!
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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	Flammable. Vapours can form explosive mixtures with air. In case of fire may be liberated: Carbon monoxide; Carbon dioxide (CO ₂); Gases/vapours, harmful.
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	Remove all sources of ignition. Provide adequate ventilation. 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	Take up mechanically. 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

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

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		surfaces, sparks, open flames and other ignition sources. No smoking.
7.3	Specific end use(s)	2-component Primer / Adhesion promotor

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters						
	Exposure limits (EH40)						
	CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
	1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
			100	441		STEL (15 min)	WEL
	Biological Monitoring Guidance Values (EH40)						
	CAS No	Substance	Parameter	Value	Test material	Sampling time	
	1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift	
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 measures	Remove contaminated, saturated clothing immediately. Draw up and 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 filter device: A2 - P2.					

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
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Physical State	Liquid
Colour	Transparent, light yellow
Odour	like Xylene
	Test Method
pH-Value	Not determined
Changes in the physical state	
Melting point:	not determined
Initial boiling point and boiling range:	~ 140 °C
Flash point:	~ 30 °C
Sustaining combustion:	Not sustaining combustion
Flammability	
Solid:	not applicable
Gas:	not applicable
Lower explosion limits:	1,0 vol. %
Upper explosion limits:	8,0 vol. %
Ignition temperature:	~ 480 °C
Auto-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined
Oxidizing properties	
Not oxidising.	
Vapour pressure (at 20 °C):	0,5 - 1,0 hPa
Density (at 20 °C):	0,87 g/cm ³
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:	not determined
Viscosity / dynamic: (at 20 °C)	20 - 30 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	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.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects																																							
	Acute toxicity																																							
	Harmful in contact with skin or if inhaled.																																							
	ATEmix calculated																																							
	ATE (dermal) 1294,1 mg/kg; ATE (inhalative vapour) 12,94 mg/l; ATE (inhalative aerosol) 1,765 mg/																																							
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	Irritation and corrosivity		Causes skin irritation. Causes serious eye irritation.																																					
	STOT-single exposure		May cause respiratory irritation.																																					
	STOT-repeated exposure		May cause damage to organs through prolonged or repeated exposure.																																					
	Aspiration hazard		May be fatal if swallowed and enters airways.																																					
	Additional information on tests		The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].																																					

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	The product is not: Ecotoxic.
12.2	Persistence and degradability	The product has not been tested.
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	
	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. 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

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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:	UN 1263
14.2	UN proper shipping name:	Paint
14.3	Transport hazard class(es):	3
14.4	Packing group:	III
	Hazard label:	3
	Classification code:	F1
	Special Provisions:	163 640E 650
	Limited quantity:	5L
	Excepted quantity:	E1
	Transport category:	3
	Hazard No:	30
	Tunnel restriction code:	D/E
Inland waterways transport (ADN)		
14.1	UN number:	UN 1263
14.2	UN proper shipping name:	Paint
14.3	Transport hazard class(es):	3
14.4	Packing group:	III
	Hazard Label	3
	Classification code:	F1
	Special Provisions	163 640E 650
	Limited quantity	5L
	Exceptional quantity	E1
14.5	Environmental hazards	Not environmentally hazardous
	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	
	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

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		or nursing mothers.
	Water contaminating class (D):	2 - clearly water contaminating
	Skin resorption/Sensitisation:	Permeates easily through outer skin and causes poisoning.
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)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
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H373	May cause damage to organs through prolonged or repeated exposure.

Last update date (ENKE-Werk)	02.08.2018
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.