•	(EC) No. 1907/2006 (REACH), Annex II, as amended by Commission	n Regulation (EU)
2015/830 - Europe			
Date of issue/ Date of revision	: 10/18/2019	Date of previous issue	: 2/12/2018

TIKKURILA

SAFETY DATA SHEET

HARDENER 008 7580

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name : HARDENER 008 7580

Product description : Hardener.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Painting work

1.3 Details of the supplier of the safety data sheet

Manufacturer or DistributorTikkurila OyjP.O. Box 53FI-01301 VANTAAFINLANDTelephone +358 20 191 2000e-mail address of personresponsible for this SDS: Tikkurila Oyj,Product Safety,e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number

Telephone number : 112 (24h)

Supplier or Manufacturer

Telephone number

: Tikkurila Oyj

+358 20 191 2000 (GMT +2) Mon-Fri 8-16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336 STOT RE 2, H373 Aquatic Chronic 2, H411 The product is classified as hererdaus according to Desulation (EQ) 1272(2000 co. co.

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements

Hazard pictograms



Date of issue/Date of revision		18.10.2019 Date of previous issue	12.02.2018.	HARDENER 008 7580
Signal word	:	Danger		
Hazard statements	:	 ▶ 226 - Flammable liquid and vapo ▶ 1318 - Causes serious eye damag ▶ 1315 - Causes skin irritation. ▶ 1317 - May cause an allergic skin ▶ 1335 - May cause respiratory irrita ▶ 1336 - May cause drowsiness or d ▶ 1373 - May cause damage to orga ▶ 1411 - Toxic to aquatic life with lor 	e. reaction. tion. lizziness. ins through pro	
Precautionary statements				
General	:	Not applicable.		
Prevention	:	 ₱210 - Keep away from heat, hot s sources. No smoking. P261 - Avoid breathing mist/vapors P273 - Avoid release to the enviror P280 - Wear protective gloves/clot P284 - In case of inadequate ventiliant 	s/spray. nment. hing and eye/fa	ace protection.
Response	:	P302 + P352 - IF ON SKIN: Wash P305 + P351 + P338 - IF IN EYES Remove contact lenses, if present P310 - Immediately call a POISON	Rinse cautiou and easy to do	sly with water for several minutes. D. Continue rinsing.
Storage	:	Not applicable.		
Disposal	:	Not applicable.		
Hazardous ingredients	:	Reaction mass of m-xylene, o-xyle aliphatic polyamine adduct n-butanol	ne, p-xylene ar	nd ethylbenzene
Supplemental label elements	:	Not applicable.		

2.3 Other hazards

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture			
Product/ingredient name	Identifiers	%	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Notes
Reaction mass of m-xylene, o- xylene, p-xylene and ethylbenzene	REACH #: 01-2119488216-32, 01-2119555267-33 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥25 - ≤50	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	С
aliphatic polyamine adduct	CAS: 99377-78-3	≥25 - ≤50	Flam. Liq. 2, H225 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-
n-butanol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≥25 - ≤39	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-
			See Section 16 for the full text of the H statements declared above.	

*) The REACH numbers of Reaction mass of m-xylene and o-xylene and p-xylene and ethylbenzene are 01-2119488216-32 and 01-2119555267-33.

Date of	issue/Date	of revision
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18.10.2019 Date of previous issue 12.02.2018. HARDENER 008 7580

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Notes, if applicable, refer to Notes given in Annex VI of 1272/2008/EC.

SECTION 4: First aid measures

4.1 Description of first aid measures General : In all cases of doubt, or when symptoms persist, seek medical attention. Show this safety data sheet or label to the doctor if possible. Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of lukewarm water, keeping eyelids open. Continue to rinse for at least 20 minutes. Get medical attention immediately. Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention. Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. Get medical attention if symptoms occur. Ingestion : If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Remove to fresh air and keep at rest in a position comfortable for breathing. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Causes skin irritation. May cause respiratory irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	 Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO₂, powders or water spray/mist.
Unsuitable extinguishing media	: Do not use a direct water jet that could spread the fire.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Flammable liquid and vapor. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous combustion products	: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

5.3 Advice for firefighters

Date of issue/Date of revision	18.10.2019 Date of previous issue	12.02.2018.	HARDENER 008 7580	
Special protective actions for fire-fighters	: Move containers from fire area if keep fire-exposed containers coo Fire water contaminated with this being discharged to any waterway	l. This material i material must be	s hazardous to aquatic organ contained and prevented fro	nisms.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropr breathing apparatus (SCBA) with mode.			9

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	:	Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Avoid breathing vapor or mist. Avoid contact with skin and eyes. See Section 8 for information on appropriate personal protective equipment.
6.2 Environmental precautions	:	Hazardous to aquatic environment. Do not allow to enter drains, water courses or soil.
6.3 Methods and materials for containment and cleaning up	:	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Preferably clean with a detergent. Avoid using solvents.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe : handling	Approx are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. Isolate from sources of heat, sparks and open flame. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. No sparking tools should be used. Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid contact with skin and eyes. Avoid inhalation of dust from sanding. Wear appropriate respirator when ventilation is inadequate. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product. Avoid release to the environment.
7.2 Conditions for safe : storage, including any incompatibilities	Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store and use away from heat, sparks, open flame or any other ignition source. No smoking. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Recommended storage temperature is +5°C+25°C. Store in accordance with local regulations.
7.3 Specific end use(s) :	None.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

18.10.2019 Date of previous issue

HARDENER 008 7580

12.02.2018.

Product/ingredient name	Exposure limit values
Reaction mass of m-xylene, o-xylene, p-xylene and ethylbenzene	EU OEL (Europe, 2/2017). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes.

Additional information

Ethylbenzene

EU OEL (Europe, 12/2009). Absorbed through skin.

TWA: 100 ppm 8 hours.

TWA: 442 mg/m³ 8 hours.

STEL: 200 ppm 15 minutes.

STEL: 884 mg/m³ 15 minutes.

Please check your local legislation for national OEL value for ethylbenzene.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof ventilation equipment. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn (see Personal protection for both components). Provide a readily-accessible eyewash facility. Comply with the health and safety at work laws.

Individual protection measures

Eye/face protection	Wear eye/face protection (EN166).	
Hand protection	Always wear approved protective gloves against chemicals. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Recommended glove material (EN374): < 1 hour (breakthrough time): nitrile rubber > 8 hours (breakthrough time): fluor rubber, laminated foil Not recommended: PVC or natural rubber (latex) gloves	
Skin protection	Wear suitable protective clothing. This product is classified as flammable. If necessary, personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.	
Respiratory protection	If ventilation is inadequate, use respirator that will protect against organic vapor and dust/mist. During spray-application use respirators with combination filter A/P3 (EN405:2001). Wear a half mask or full face respirator with gas and vapor filter A and dust filter P2 during sanding (EN140:1998, EN405:2001). During continuous and long-term work the use of motor-driven or air-fed respirators is recommended (EN12941:1998). Be sure to use an approved/certified respirator or equivalent. Check that mask fits tightly and change filter regularly.	t
Environmental exposure controls	For information regarding environmental protection measures, please refer to section 13 for waste handling, section 7 for handling and storage and section 1.2 for relevant identified uses of the substance or mixture and uses advised against.	

SECTION 9: Physical and chemical properties

SECTION 9: Physical an	a	SECTION 9: Physical and chemical properties				
9.1 Information on basic physical and chemical properties						
Appearance						
Physical state	:	Liquid.				
Color	:	Clear.				
Odor	:	Strong.				
Odor threshold	:	Not relevant for the hazard assessment of the product.				
рН	:	Not relevant for the hazard assessment of the product.				
Melting point/freezing point	:	₽94.96°C (xylene)				
Initial boiling point and boiling range	:	1∕3 6.16°C (xylene)				
Flash point	:	25°C (xylene)				
Evaporation rate	:	0.77 (butyl acetate = 1) (xylene)				
Flammability (solid, gas)	:	Not applicable. Product is a liquid.				
Upper/lower flammability or explosive limits	:	Vower: 0.8% (xylene) Upper: 6.7% (xylene)				
Vapor pressure	:	Ø.89 kPa [room temperature] (xylene)				
Vapor density	:	3.7 (xylene)				
Density	:	0.93 g/cm ³				
Solubility(ies)	:	insoluble in water.				
Partition coefficient: n-octanol/ water	:	Not available.				
Auto-ignition temperature	:	<mark>4</mark> 32°C (xylene)				
Decomposition temperature	:	Not relevant for the hazard assessment of the product.				
Viscosity	:	Kinematic (40°C): >20.5 mm ² /s				
Explosive properties	:	No explosive ingredients present.				
Oxidizing properties	:	No oxidizing ingredients present.				

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity				
10.1 Reactivity	See Se	ection 10.5.		
10.2 Chemical stability	Stable	under recommended storage and handling conditions (see Section 7).		
10.3 Possibility of hazardous reactions		resent an explosion hazard when material is suspended in air in confined or equipment and subjected to spark, heat or flame.		
10.4 Conditions to avoid	Avoid (flame)	extreme heat and freezing. Avoid all possible sources of ignition (spark or		
10.5 Incompatible materials	•			
10.6 Hazardous decomposition products		exposed to high temperatures, hazardous decomposition products may be ed, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.		

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There is no testdata available on the product itself.

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Long term exposure by inhalation may cause respiratory tract irritation. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged skin contact may lead to allergic contact dermatitis. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
p-butanol	LD50 Oral	Rat	790 mg/kg	-

Not classified.

Irritation/Corrosion

Causes skin irritation. Causes serious eye damage.

Sensitization

May cause an allergic skin reaction.

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

Teratogenicity

Not classified.

Specific target organ toxicity (single exposure)

May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not classified.

SECTION 12: Ecological information

Ecological testing has not been conducted on this product. Do not allow to enter drains, water courses or soil.

The product is classified as environmetally hazardous according to Regulation (EC) 1272/2008. Toxic to aquatic life with long lasting effects.

12.1 Toxicity

: No specific data.

Not available.

12.2 Persistence and : No specific data. **degradability**

12.3 Bioaccumulative potential

18.10.2019 Date of previous issue

12.02.2018.

HARDENER 008 7580

Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
p -butanol	1	-	low
Reaction mass of m-xylene, o-xylene, p-xylene and ethylbenzene	3.12	8.1 to 25.9	low

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

- Methods of disposal
- : Gather residues into waste containers. Liquid residue and cleaning liquids are hazardous waste and must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Packaging

Methods of disposal: Empty packaging should be disposed of in accordance with national regulations.Special precautions: None.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	111	Ш	
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

Date of issue/Date of revision	18.10.2	019 Date of previous issue	12.02.2018.	HARDENER 008 7580	
ADR/RID	sizes o	vironmentally hazardous s f ≤5 L or ≤5 kg. <u>I code</u> (D/E)	ubstance mark is	s not required when transported in	
IMDG		The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg Emergency schedules F-E,S-E			
ΙΑΤΑ		vironmentally hazardous s rtation regulations.	ubstance mark m	nay appear if required by other	
14.6 Special precautions for user	upright	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.			
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	: Not ava	: Not available.			
SECTION 15: Regula	tory inf	ormation			
15.1 Safety, health and envir	onmental r	egulations/legislation s	pecific for the su	ubstance or mixture	
EU Regulation (EC) No. 190	7/2006 (RE	ACH)			
Other EU regulations Europe inventory	: Not det	ermined.			
· · · · · · · · · · · · · · · · · · ·					
15.2 Chemical Safety Assessment	: This pr require		s for which Chem	ical Safety Assessments are still	
SECTION 16: Other i	nformat	tion			
SECTION 10. Other I	morma				
Indicates information that h			ersion.		
	nas change : ATE =	d from previously issued v Acute Toxicity Estimate			
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Date of issue/Date of revision	18.10.2019 Date of previous issue 12.02.2018. HARDENER 008 7580
	 H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H312 Acute Tox. 4, H312 Acute Tox. 4, H322 Acute Tox. 4, H322 Acute Tox. 1, H332 Acute Tox. 1, H304 Asp. Tox. 1, H304 Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Eye Irrit. 2, H319 Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2 Stor RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
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Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 830/2015 to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.