according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 1 of 15

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

1.1. Product identifier

HP-E111L HARDENER

UFI: CQVN-D75V-MN8D-AF2E

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

Use of the substance/mixture

Adhesives, sealants

Uses advised against

Any use not mentioned in the product data sheet.

1.3. Details of the supplier of the safety data sheet

Company name: HP-Textiles GmbH Street: Otto-Hahn-Str. 22 Place: D-48480 Schapen

Telephone: +49 (0) 5905 94598-70 Telefax: +49 (0) 5905 94598-74

e-mail: produktsicherheit@hp-textiles.com

Internet: www.hp-textiles.com
Responsible Department: Safety department

1.4. Emergency telephone +49 (0) 151 5473 5568 (08:00 a.m.- 03:00 p.m.)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

3-aminomethyl-3,5,5-trimethylcyclohexylamine

benzyl alcohol

Polyoxypropylendiamine Phenol, styrenated

Signal word: Danger

Pictograms:





Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 2 of 15

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor. Store

P405 locked up.

P501 Dispose of contents/container to harzadous waste.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclo	hexylamine		50 - 75 %	
	220-666-8	612-067-00-9	01-2119514687-32		
	Acute Tox. 4, Skin Corr. 1B, Eye D	am. 1, Skin Sens. 1A; H302 H314 H	318 H317		
100-51-6	benzyl alcohol		10 - 25 %		
	202-859-9	603-057-00-5	01-2119492630-38		
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H332 H302 H319				
9046-10-0	Polyoxypropylendiamine	10 - 25 %			
	618-561-0		01-2119557899-12		
	Skin Corr. 1C, Eye Dam. 1, Aquatic Chronic 3; H314 H318 H412				
61788-44-1	Phenol, styrenated		1 - 5 %		
	262-975-0		01-2119980970-27		
	Skin Irrit. 2, Skin Sens. 1, Aquatic (Chronic 2; H315 H317 H411			

Full text of H and EUH statements: see section 16.

according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 3 of 15

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc. I	Limits, M-factors and ATE			
2855-13-2	220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	50 - 75 %		
	inhalation: LC5 0,001 - 100	inhalation: LC50 = >5,01 mg/l (dusts or mists); oral: ATE 1030 mg/kg Skin Sens. 1A; H317: >= 0,001 - 100			
100-51-6	202-859-9	benzyl alcohol	10 - 25 %		
	inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = (>4178) mg/l (dusts or mists); dermal: LD50 = (>2000) mg/kg; oral: LD50 = 1580 mg/kg				
9046-10-0	618-561-0	Polyoxypropylendiamine	10 - 25 %		
	inhalation: LC50 = [0,74] mg/l (vapours); dermal: LD50 = 2980 mg/kg; oral: LD50 = 2885 mg/kg				
61788-44-1	262-975-0	Phenol, styrenated	1 - 5 %		
dermal: LD50 = >2000 mg/kg; oral: LD50 = >2500 mg/kg					

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician. In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks.)

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

4.2. Most important symptoms and effects, both acute and delayed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

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

Sand. Foam. Carbon dioxide (CO2). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

Unsuitable extinguishing media

Full water jet

according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 4 of 15

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2)

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. 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.

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear personal protection equipment (refer to section 8).

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For containment

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information

Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. (See section 8.)

Conditions to avoid: aerosol or mist formation

Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

When using do not eat, drink or smoke.

Further information on handling

Advices on general occupational hygiene: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 5 of 15

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Radioactive substances. Infectious substances.

Further information on storage conditions

Recommended storage temperature: 20°C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance				
DNEL type	DNEL type		Effect	Value	
100-51-6	benzyl alcohol				
Consumer DN	EL, long-term	oral	systemic	4 mg/kg bw/day	
Worker DNEL,	acute	inhalation	systemic	110 mg/m³	
Worker DNEL,	long-term	inhalation	systemic	22 mg/m³	
Consumer DN	EL, acute	oral	systemic	20 mg/kg bw/day	
Consumer DN	EL, acute	inhalation	systemic	27 mg/m³	
Consumer DN	EL, long-term	inhalation	systemic	5,4 mg/m³	
Worker DNEL,	long-term	dermal	systemic	8 mg/kg bw/day	
Consumer DN	EL, acute	dermal	systemic	20 mg/kg bw/day	
Consumer DN	EL, long-term	dermal	systemic	4 mg/kg bw/day	
Worker DNEL,	acute	dermal	systemic	40 mg/kg bw/day	
9046-10-0	Polyoxypropylendiamine				
Worker DNEL,	long-term	inhalation	systemic	1.36 mg/m³	
Worker DNEL,	long-term	dermal	systemic	2.5 mg/kg bw/day	
61788-44-1	Phenol, styrenated				
Worker DNEL,	long-term	inhalation	systemic	11,02 mg/m³	
Worker DNEL, long-term		dermal	systemic	6,25 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	systemic	2,717 mg/m³	
Consumer DNEL, long-term		dermal	systemic	3,125 mg/kg bw/day	
Consumer DN	EL, long-term	oral	systemic	1,562 mg/kg bw/day	

according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 6 of 15

PNEC values

OAO Na	0	
CAS No	Substance	
Environment	al compartment	Value
100-51-6	benzyl alcohol	
Freshwater		1 mg/l
Freshwater (intermittent releases)	2,3 mg/l
Marine water	•	0,1 mg/l
Freshwater s	rediment	5,27 mg/kg
Marine sedin	nent	0,527 mg/kg
Micro-organi	sms in sewage treatment plants (STP)	39 mg/l
Soil		0,456 mg/kg
9046-10-0	Polyoxypropylendiamine	
Freshwater		0.015 mg/l
Marine water		0.014 mg/l
Freshwater s	rediment	0.132 mg/kg
Marine sediment		0.125 mg/kg
Secondary poisoning		6.93 mg/kg
Micro-organisms in sewage treatment plants (STP)		7.5 mg/l
Soil		0.018 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls









Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. BS/EN 166

Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time >= 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time >= 8 h

PVC (Polyvinyl chloride).

Breakthrough time >= 8 h

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 7 of 15

Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- -Exceeding exposure limit values
- -Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type A-P2

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: different
Odour: characteristic

Test method

Changes in the physical state

Melting point/freezing point:

No information available.

Boiling point or initial boiling point and

>200 °C

boiling range:

Sublimation point:

Softening point:

No information available.

No information available.

No information available.

No information available.

Flash point:

>100 °C

Flammability

Solid/liquid: No information available.

Gas: No information available.

Explosive properties

none

Lower explosion limits: 1,2 g/m³
Upper explosion limits: 13 g/m³

Auto-ignition temperature: 365 °C DIN 51794

Self-ignition temperature

Solid:
Gas:
No information available.
No information available.
No information available.
Pecomposition temperature:
No information available.
No information available.
Viscosity / dynamic:
100 mPa·s

(at 25 °C)

Viscosity / kinematic:

No information available.

Flow time:

No information available.

according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 8 of 15

Water solubility: almost immiscible OECD 105

Solubility in other solvents

No information available.

Partition coefficient n-octanol/water: No information available.

Vapour pressure: <1 hPa DIN 51640

(at 20 °C)

Vapour pressure: No information available. DIN 51754

(at 50 °C)

Density (at 23 °C): 1,0 g/cm³ ASTM D 1296

Bulk density: No information available. ISO 1183 (A)

Relative vapour density:

No information available.

9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion: No data available

Oxidizing properties

none

Other safety characteristics

Solvent separation test:

Solvent content:

No information available.

Further Information

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2)

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1672,7 mg/kg

according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 9 of 15

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
2855-13-2	3-aminomethyl-3,5,5-t	3-aminomethyl-3,5,5-trimethylcyclohexylamine							
	oral	ATE 103	0 mg/kg						
	inhalation (4 h) dust/mist	LC50 mg/l	>5,01	Rat.	ECHA Dossier				
100-51-6	benzyl alcohol								
	oral	LD50 mg/kg	1580	Mouse	ECHA Dossier	OECD 401			
	dermal	LD50 mg/kg	(>2000)	Rabbit	ECHA-Dossier				
	inhalation vapour	ATE	11 mg/l						
	inhalation (4 h) dust/mist	LC50 mg/l	(>4178)	Rat	ECHA-Dossier	OECD 403			
9046-10-0	Polyoxypropylendiamine								
	oral	LD50 mg/kg	2885	Rat	ECHA Dossier				
	dermal	LD50 mg/kg	2980	Rabbit.	ECHA Dossier				
	inhalation vapour	LC50 mg/l	[0,74]	8 h Rat	ECHA Dossier				
61788-44-1	Phenol, styrenated								
	oral	LD50 mg/kg	>2500	Rat	ECHA Dossier				
	dermal	LD50 mg/kg	>2000	Rat	ECHA Dossier				

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; Phenol, styrenated)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 10 of 15

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
2855-13-2	3-aminomethyl-3,5,5-trim	ethylcycloh	exylamine					
	Acute fish toxicity	LC50	110 mg/l	96 h	Leucisus idus	ECHA Dossier		
	Acute algae toxicity	ErC50	>50 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier		
	Acute crustacea toxicity	EC50	23 mg/l	48 h	Daphnia Magna	ECHA Dossier		
100-51-6	benzyl alcohol							
	Acute fish toxicity	LC50	460 mg/l	96 h	Pimephales promelas	ECHA Dossier		
	Acute algae toxicity	ErC50	500 mg/l	72 h	Pseudokirchnella subcpitata	ECHA Dossier	OECD 201	
	Acute crustacea toxicity	EC50	230 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD 202	
9046-10-0	Polyoxypropylendiamine							
	Acute fish toxicity	LC50	>15 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier		
	Acute algae toxicity	ErC50 mg/l	141,72	72 h	Skeletonema costatum	ECHA Dossier		
	Acute crustacea toxicity	EC50 mg/l	418,34	48 h	Acartia tonsa	ECHA Dossier		
	Algae toxicity	NOEC	100 mg/l	3 d	Skeletonema costatum	ECHA Dossier		
	Crustacea toxicity	NOEC	200 mg/l	2 d	Acartia tonsa	ECHA Dossier		
61788-44-1	Phenol, styrenated							
	Acute fish toxicity	LC50 mg/l	1,77	96 h	Danio rerio	ECHA Dossier		
	Acute algae toxicity	ErC50 mg/l	1,35	72 h	Desmodesmus subspicatus.	ECHA Dossier		

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name					
0/10/110	Method	Value	d	Source		
	Evaluation	•		•		
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine					
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	8%	28	ECHA Dossier		
	Not readily biodegradable (according to OECD criteria)					
100-51-6	benzyl alcohol					
	OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F	96%	14	ECHA-Dossier		
	readily biodegradable					
9046-10-0	Polyoxypropylendiamine					
	OECD Guideline 301 B	0%	28	ECHA Dossier		
	Not easily bio-degradable (according to OECD-criteria).	•	-			
61788-44-1	Phenol, styrenated					
	OECD Guideline 310	4%	28	ECHA Dossier		
	Not easily bio-degradable (according to OECD-criteria).					

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

according to UK REACH Regulation

HP-E111L HARDENER Revision date: 08.12.2022 Product code: 168 Page 11 of 15

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	0,99
100-51-6	benzyl alcohol	1,05
9046-10-0	Polyoxypropylendiamine	1,344
61788-44-1	Phenol, styrenated	3,67

BCF

CAS No	Chemical name	BCF	Species	Source
100-51-6	benzyl alcohol	1,37		ECHA-Dossier

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Wassergefährdungsklasse 2 - wassergefährdend

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

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

200127 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); paint, inks, adhesives and resins containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

150110

according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 12 of 15

14.1. UN number or ID number: UN 2735

14.2. UN proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONDIAMINE)

14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Classification code: C7
Special Provisions: 274
Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 80
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 2735

14.2. UN proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONDIAMINE)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Classification code: C7
Special Provisions: 274
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 2735

14.2. UN proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONDIAMINE)

 14.3. Transport hazard class(es):
 8

 14.4. Packing group:
 III

 Hazard label:
 8



Marine pollutant:

Special Provisions:

Limited quantity:

Excepted quantity:

EmS:

NO

223, 274

5 L

E1

F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2735

14.2. UN proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONDIAMINE)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 13 of 15

Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3 A803

1 L

Y841

Excepted quantity:

E1

IATA-packing instructions - Passenger:852IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:856IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Safe handling: see section 7

Personal protection equipment: see section 8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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 75

2010/75/EU (VOC): 0 % in the intended hardened condition 2004/42/EC (VOC): 0 % in the intended hardened condition Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

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

REACH 1907/2006 Appendix XVII, No (mixture): 3

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): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

benzyl alcohol

Polyoxypropylendiamine

SECTION 16: Other information

Changes

Rev.: 5,0 - Initial release 18.11.2022

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)

CAS Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 14 of 15

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European LIst of Notified Chemical Substances

ECHA: European Chemicals Agency EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAFL: Lowest observed adverse effect level

LOAFC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

H318 Causes serious eve damage. H319 Causes serious eve irritation. H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method. Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

according to UK REACH Regulation

HP-E111L HARDENER

Revision date: 08.12.2022 Product code: 168 Page 15 of 15

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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)