

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LDS PR 303 (B-Component)

Date: 09.12.2020

Revision date:

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

1.1. Product identifier

LDS PR 303 (B-Component)

Further trade names / Item numbers

x

UFI: 0E9A-HS6F-XFCJ-AWSV

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

Use of the substance/mixture

Hardener

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	LDS Construct
Street:	Rozieresesteeweg 87
Place:	3090 Overijse
Telephone:	+32 474 94 49 57
e-mail:	info@ldsconstruct.com
Internet:	www.ldsconstruct.com/

1.4. Emergency telephone number:

+32 70 245 245

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Reproductive toxicity: Repr. 1B

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Harmful if swallowed.

Harmful if inhaled.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

May damage fertility.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

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Hazard components for labelling

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine
Isophorone diamine
m- Xylylene diamine
Bisphenol A

Signal word:

Danger

Pictograms:



Hazard statements

H302+H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H360F	May damage fertility.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a doctor if you feel unwell.
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.
P405	Store locked up.
P501	Dispose of waste according to applicable legislation.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Hardener for epoxy resin

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine			≥ 30 - < 50 %
	606-078-8		01-2119983521-35	
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H315 H318 H317 H400 H410			
100-51-6	Benzyl alcohol			≥ 20 - < 30 %
	202-859-9		01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4; H332 H302			
2855-13-2	Isophorone diamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine			≥ 5 - < 10 %
	220-666-8		01-2119514687-32	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H317 H412			
1477-55-0	m-phenylenebis(methylamine), m- Xylylene diamine			≥ 5 - < 10 %
	216-032-5		01-2119480150-50	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1B, Aquatic Chronic 3; H332 H302 H314 H317 H412 EUH071			
80-05-7	4,4'-isopropylidenediphenol, Bisphenol A			≥ 3 - < 10 %
	201-245-8		01-2119457856-23	
	Repr. 1B, Eye Dam. 1, Skin Sens. 1, STOT SE 3; H360F H318 H317 H335			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol			≥ 1 - < 3 %
	202-013-9		01-2119560597-27	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319			
109-55-7	3-aminopropyldimethylamine			≥ 1 - < 3 %
	203-680-9		01-2119486842-27	
	Flam. Liq. 3, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H226 H302 H314 H317			
69-72-7	Salicylic acid			≥ 1 - < 3 %
	200-712-3		01-2119486984-17	
	Repr. 2, Acute Tox. 4, Eye Dam. 1; H361d H302 H318			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice.

First aider: Pay attention to self-protection!

Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration.

Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

Take off immediately all contaminated clothing and wash it before reuse.

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After contact with eyes

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

After ingestion

Rinse mouth thoroughly with water.
Do NOT induce vomiting.
Adverse human health effects and symptoms: Gastric perforation.
Call a physician immediately.
Do not allow a neutralisation agent to be drunk.

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

Corrosive to the respiratory tract.
May cause an allergic skin reaction.

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

Water spray jet, Extinguishing powder, Carbon dioxide.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air.
Hazardous combustion products: Nitrogen oxides (NO_x), Carbon oxides

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

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 to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

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. Clean contaminated articles and floor according to the environmental legislation.

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

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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

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Hardener

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
80-05-7	Bisphenol A, inhalable dust	-	10		TWA (8 h)	WEL

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine			
Worker DNEL, long-term	inhalation	systemic	7.05 mg/m ³	
Worker DNEL, long-term	dermal	systemic	1 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	1.74 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	0.5 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	0.5 mg/kg bw/day	
100-51-6	Benzyl alcohol			
Worker DNEL, long-term	inhalation	systemic	22 mg/m ³	
Worker DNEL, acute	inhalation	systemic	110 mg/m ³	
Worker DNEL, long-term	dermal	systemic	8 mg/kg bw/day	
Worker DNEL, acute	dermal	systemic	40 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	5.4 mg/m ³	
Consumer DNEL, acute	inhalation	systemic	27 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	4 mg/kg bw/day	
Consumer DNEL, acute	dermal	systemic	20 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	4 mg/kg bw/day	
Consumer DNEL, acute	oral	systemic	20 mg/kg bw/day	
2855-13-2	Isophorone diamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Worker DNEL, long-term	inhalation	local	73 µg/m ³	
Worker DNEL, acute	inhalation	local	73 µg/m ³	
Consumer DNEL, long-term	oral	systemic	0.526 mg/kg bw/day	
1477-55-0	m-phenylenebis(methylamine), m- Xylylene diamine			
Worker DNEL, long-term	inhalation	systemic	1.2 mg/m ³	
Worker DNEL, long-term	inhalation	local	0.2 mg/m ³	
Worker DNEL, long-term	dermal	systemic	0.33 mg/kg bw/day	
80-05-7	4,4'-isopropylidenediphenol, Bisphenol A			
Worker DNEL, long-term	inhalation	systemic	2 mg/m ³	
Worker DNEL, acute	inhalation	systemic	2 mg/m ³	
Worker DNEL, long-term	inhalation	local	2 mg/m ³	
Worker DNEL, acute	inhalation	local	2 mg/m ³	
Worker DNEL, long-term	dermal	systemic	31 µg/kg bw/day	
Worker DNEL, acute	dermal	systemic	31 µg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	1 mg/m ³	
Consumer DNEL, acute	inhalation	systemic	1 mg/m ³	
Consumer DNEL, long-term	inhalation	local	1 mg/m ³	
Consumer DNEL, acute	inhalation	local	1 mg/m ³	

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Consumer DNEL, long-term	dermal	systemic	1.9 µg/kg bw/day
Consumer DNEL, acute	dermal	systemic	1.9 µg/kg bw/day
Consumer DNEL, long-term	oral	systemic	4 µg/kg bw/day
Consumer DNEL, acute	oral	systemic	4 µg/kg bw/day
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol		
Worker DNEL, long-term	inhalation	systemic	0.53 mg/m ³
Worker DNEL, acute	inhalation	systemic	2.1 mg/m ³
Worker DNEL, long-term	dermal	systemic	0.15 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	0.6 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0.13 mg/m ³
Consumer DNEL, acute	inhalation	systemic	0.13 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0.075 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	0.075 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0.075 mg/kg bw/day
109-55-7	3-aminopropyldimethylamine		
Worker DNEL, long-term	inhalation	systemic	1.2 mg/m ³
69-72-7	Salicylic acid		
Worker DNEL, long-term	inhalation	systemic	5 mg/m ³
Worker DNEL, long-term	inhalation	local	5 mg/m ³
Worker DNEL, long-term	dermal	systemic	2.3 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	4 mg/m ³
Consumer DNEL, long-term	dermal	systemic	1 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	1 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	4 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	
Freshwater		186 ng/l
Freshwater (intermittent releases)		1.86 µg/l
Marine water		19 ng/l
Freshwater sediment		5 µg/kg
Marine sediment		0.5 µg/kg
Micro-organisms in sewage treatment plants (STP)		1.58 mg/l
Soil		11.1 mg/kg
100-51-6	Benzyl alcohol	
Freshwater		1-1.02 mg/l
Freshwater (intermittent releases)		2.3 mg/l
Marine water		0.1-0.102 mg/l
Freshwater sediment		5.27 mg/kg
Marine sediment		0.527 mg/kg
Micro-organisms in sewage treatment plants (STP)		39 mg/l
Soil		0.456 mg/kg
2855-13-2	Isophorone diamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine	
Freshwater		60 µg/l
Freshwater (intermittent releases)		0.23 mg/l
Marine water		6 µg/l
Freshwater sediment		5.784 mg/kg
Marine sediment		0.578 mg/kg
Micro-organisms in sewage treatment plants (STP)		3.18 mg/l
Soil		1.121 mg/kg
1477-55-0	m-phenylenebis(methylamine), m- Xylylene diamine	
Freshwater		94 µg/l
Freshwater (intermittent releases)		0.152 mg/l
Marine water		9.4 µg/l
Freshwater sediment		12.4 mg/kg
Marine sediment		1.24 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		2.44 mg/kg
80-05-7	4,4'-isopropylidenediphenol, Bisphenol A	
Freshwater		18 µg/l
Freshwater (intermittent releases)		11 µg/l
Marine water		18 µg/l
Freshwater sediment		1.2 mg/kg
Marine sediment		0.24 mg/kg
Micro-organisms in sewage treatment plants (STP)		320 mg/l
Soil		3.7 mg/kg

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90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	
Freshwater		46 µg/l
Freshwater (intermittent releases)		0.46 mg/l
Marine water		4.6 µg/l
Marine water (intermittent releases)		46 µg/l
Freshwater sediment		0.262 mg/kg
Marine sediment		0.026 mg/kg
Micro-organisms in sewage treatment plants (STP)		0.2 mg/l
Soil		25.4 µg/kg
109-55-7	3-aminopropyldimethylamine	
Freshwater		72.8 µg/l
Freshwater (intermittent releases)		0.34 mg/l
Marine water		7.28 µg/l
Freshwater sediment		0.735 mg/kg
Marine sediment		0.074 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0.104 mg/kg
69-72-7	Salicylic acid	
Freshwater		0.2 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0.02 mg/l
Freshwater sediment		1.42 mg/kg
Marine sediment		0.142 mg/kg
Micro-organisms in sewage treatment plants (STP)		162 mg/l
Soil		0.166 mg/kg

Additional advice on limit values

TWA: time-weighted-average

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. 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

Tightly sealed safety glasses.

Hand protection

Wear protective gloves. Recommended material: NBR (Nitrile rubber), Butyl rubber:
Thickness of the glove material: ≥ 0.5 mm, Break through time: ≥ 480 min

Skin protection

Wear suitable protective clothing.

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Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	light yellow - brown
Odour:	characteristic

Test method

pH-Value (at 20 °C):	~ 11
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Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	~ 135 °C
Flash point:	77 °C

Flammability

Solid:	not applicable
Gas:	not applicable

Explosive properties

The product is not explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined

Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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Oxidizing properties

Not oxidising.

Vapour pressure:	not determined
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Density (at 20 °C):	1.03 g/cm ³	DIN 51757
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Water solubility: (at 20 °C)	partially soluble
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Solubility in other solvents

not determined

Partition coefficient:	not determined
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Viscosity / dynamic: (at 25 °C)	450 - 1400 mPa·s
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Vapour density:	not determined
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Evaporation rate:	not determined
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9.2. Other information

Solid content:	not determined
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SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

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The product is stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Corrosive gases/vapour

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if inhaled.

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1906.8 mg/kg; ATE (inhalation aerosol) 3.839 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
100-51-6	Benzyl alcohol				
	oral	LD50 1620 mg/kg	Rat	IUCLID	
	dermal	LD50 > 2000 mg/kg	Rabbit	IUCLID	EPA OTS 798.1100
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1.5 mg/l			
2855-13-2	Isophorone diamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine				
	oral	LD50 1030 mg/kg	Ratte	IUCLID	OECD 401
	dermal	LD50 > 2000 mg/kg	Rat	IUCLID	OECD 402
1477-55-0	m-phenylenebis(methylamine), m- Xylylene diamine				
	oral	LD50 930 mg/kg	Rat	IUCLID	OECD 401
	dermal	LD50 > 3100 mg/kg	Rat	IUCLID	
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 1.34 mg/l	Rat	IUCLID	
80-05-7	4,4'-isopropylidenediphenol, Bisphenol A				
	oral	LD50 > 2000 mg/kg	Rat	IUCLID	OECD 401
	dermal	LD50 3000 mg/kg	Rabbit	IUCLID	literature value
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol				
	oral	LD50 2169 mg/kg	Rat	IUCLID	OECD 401
	dermal	LD50 1280 mg/kg	Rat	GESTIS	Manufacturer
109-55-7	3-aminopropyldimethylamine				
	oral	LD50 410 mg/kg	Rat	IUCLID	OECD 401
69-72-7	Salicylic acid				
	oral	LD50 891 mg/kg	Rat	IUCLID	OECD 401
	dermal	LD50 > 2000 mg/kg	Rat	IUCLID	OECD 402

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

May cause an allergic skin reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility (Bisphenol A).

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

STOT-single exposure

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

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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.

Additional information on tests

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

Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine					
	Acute fish toxicity	LC50 1.806 mg/l	96 h	Oncorhynchus mykiss	IUCLID	OECD 203
	Acute algae toxicity	ErC50 0.186 mg/l	72 h	freshwater algae	IUCLID	OECD 201
	Acute crustacea toxicity	EC50 0.705 mg/l	48 h	Daphnia magna	IUCLID	OECD 202
	Acute bacteria toxicity	(157.6 mg/l)	3 h	Activated sludge	IUCLID	OECD 209
100-51-6	Benzyl alcohol					
	Acute fish toxicity	LC50 460 mg/l	96 h	Pimephales promelas	IUCLID	EPA OPP 72-1
	Acute crustacea toxicity	EC50 230 mg/l	48 h	Daphnia magna	IUCLID	OECD 202
	Acute bacteria toxicity	(390 mg/l)	24 h	Nitrosomonas sp.	IUCLID	
2855-13-2	Isophorone diamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine					
	Acute fish toxicity	LC50 110 mg/l	96 h	Leuciscus idus	IUCLID	
	Acute algae toxicity	EC50 > 50 mg/l	72 h	Desmodesmus subspicatus	IUCLID	OECD 201
	Acute crustacea toxicity	EC50 23 mg/l	48 h	Daphnia magna	IUCLID	OECD 202
1477-55-0	m-phenylenebis(methylamine), m- Xylylene diamine					
	Acute fish toxicity	LC50 8.6 mg/l	96 h	Oryzias latipes	IUCLID	OECD 203
	Acute algae toxicity	EC50 20.3 mg/l	72 h	Selenastrum capricornutum	IUCLID	OECD 201
	Acute crustacea toxicity	EC50 15.2 mg/l	48 h	Daphnia magna	IUCLID	OECD 202
	Acute bacteria toxicity	(> 1000 mg/l)	0,5 h	Activated sludge	IUCLID	OECD 209
80-05-7	4,4'-isopropylidenediphenol, Bisphenol A					
	Acute fish toxicity	LC50 4.6 mg/l	96 h	Pimephales promelas	IUCLID	OECD 203
	Acute algae toxicity	EC50 2.73 mg/l	96 h	Pseudokirchneriella subcapitata	IUCLID	literature value
	Acute crustacea toxicity	EC50 10.2 mg/l	48 h	Daphnia magna	IUCLID	E07-04, ASTM E-35.21
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Cyprinus carpio	IUCLID	OECD 203
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	IUCLID	OECD 202
109-55-7	3-aminopropyldimethylamine					
	Acute fish toxicity	LC50 122 mg/l	96 h	Leuciscus idus	IUCLID	DIN 38412-15
	Acute algae toxicity	ErC50 34 mg/l	72 h	Pseudokirchneriella subcapitata	IUCLID	OECD 201
	Acute crustacea toxicity	EC50 59.5 mg/l	48 h	Daphnia magna	IUCLID	OECD 202
69-72-7	Salicylic acid					
	Acute fish toxicity	LC50 1370 mg/l	96 h	Pimephales promelas	IUCLID	OECD 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Scenedesmus subspicatus	IUCLID	OECD 201
	Acute crustacea toxicity	EC50 870 mg/l	48 h	Daphnia magna	IUCLID	

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12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine			
	OECD 301D	9 %	28	
	Not readily biodegradable (according to OECD criteria)			
100-51-6	Benzyl alcohol			
	OECD 301A (DOC Die-Away Test)	95-97	21	
	Readily biodegradable (according to OECD criteria).			
2855-13-2	Isophorone diamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine			
	DOC-Die Away Test (EU method C.4-A)	8 %	28	
	Not readily biodegradable (according to OECD criteria)			
1477-55-0	m-phenylenebis(methylamine), m- Xylylene diamine			
	OECD 301B	49 %	28	
	Not readily biodegradable (according to OECD criteria)			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol			
	OECD 301D	< 4 %	28	
	Not biodegradable			
109-55-7	3-aminopropyl dimethylamine			
	OECD 301D	69 %	20	
	Readily biodegradable (according to OECD criteria).			
69-72-7	Salicylic acid			
	OECD 301F	94 %	28	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	3.38
100-51-6	Benzyl alcohol	1.05
2855-13-2	Isophorone diamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine	0.99
1477-55-0	m-phenylenebis(methylamine), m- Xylylene diamine	~ 0.18
80-05-7	4,4'-isopropylidenediphenol, Bisphenol A	3.4
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	- 0.66
109-55-7	3-aminopropyl dimethylamine	- 0.35
69-72-7	Salicylic acid	2.64

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

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.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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.

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

UN 2735

14.2. UN proper shipping name:

AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorone diamine, M-Xylylene diamine)

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:

UN 2735

14.2. UN proper shipping name:

AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorone diamine, M-Xylylene diamine)

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

Marine transport (IMDG)

14.1. UN number:

UN 2735

14.2. UN proper shipping name:

AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorone diamine, M-Xylylene diamine)

14.3. Transport hazard class(es):

8

14.4. Packing group:

III

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Hazard label:

8



Special Provisions:

223, 274

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:

UN 2735

14.2. UN proper shipping name:

AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorone diamine, M-Xylylene diamine)

14.3. Transport hazard class(es):

8

14.4. Packing group:

III

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

1 L

Passenger LQ:

Y841

Excepted quantity:

E1

IATA-packing instructions - Passenger:

852

IATA-max. quantity - Passenger:

5 L

IATA-packing instructions - Cargo:

856

IATA-max. quantity - Cargo:

60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



14.6. Special precautions for user

Warning: strongly corrosive.

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

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

Bisphenol A

Restrictions on use (REACH, annex XVII):

Entry 66: Bisphenol A

Information according to 2012/18/EU (SEVESO III):

E1 Hazardous to the Aquatic Environment

National regulatory information

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Employment restrictions: Observe restrictions to employment for juvenils 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 hazard class (D): 2 - obviously 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

CLP: Classification, labelling and Packaging
 REACH: Registration, Evaluation and Authorization of Chemicals
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
 UN: United Nations
 CAS: Chemical Abstracts Service
 DNEL: Derived No Effect Level
 DMEL: Derived Minimal Effect Level
 PNEC: Predicted No Effect Concentration
 ATE: Acute toxicity estimate
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%
 LL50: Lethal loading, 50%
 EL50: Effect loading, 50%
 EC50: Effective Concentration 50%
 ErC50: Effective Concentration 50%, growth rate
 NOEC: No Observed Effect Concentration
 BCF: Bio-concentration factor
 PBT: persistent, bioaccumulative, toxic
 vPvB: very persistent, very bioaccumulative
 ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Regulations concerning the international carriage of dangerous goods by rail
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
 IMDG: International Maritime Code for Dangerous Goods
 EmS: Emergency Schedules
 MFAG: Medical First Aid Guide
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships
 IBC: Intermediate Bulk Container
 SVHC: Substance of Very High Concern
 For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

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Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H332	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Repr. 1B; H360F	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H360F	May damage fertility.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	2K-system	C	-	32	19	-	-	-	Hardener

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

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