



# Safety Data Sheet

in accordance with Regulation (EC) No 1907/2006

## Hardener MP Advanced

Revision date: 06.03.2024

Product code: 125157-2018

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

#### 1.1. Product identifier

Hardener MP Advanced

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

##### Use of the substance/mixture

epoxy resin hardener

#### 1.3. Details of the supplier of the safety data sheet

Company name:	R&G Faserverbundwerkstoffe GmbH	
	Composite Technology	
Street:	Im Meißel 7 - 13	
Place:	D-71111 Waldenbuch	
Post-office box:	1145	
	D-71107 Waldenbuch	
Telephone:	+49 (0)7157 5304-60	Telefax: +49 (0)7157 5304-70
E-mail:	info@r-g.de	
Contact person:	Michael Groß	
Internet:	www.r-g.de	
Responsible Department:	Management	

**1.4. Emergency telephone number:** Vergiftungs-Informationen-Zentrale Freiburg  
Tel: +49 (0)761 19240

#### Further Information

For commercial users only.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GB CLP Regulation

Acute Tox. 4; H302  
Acute Tox. 4; H312  
Skin Corr. 1A; H314  
Eye Dam. 1; H318  
Skin Sens. 1; H317  
Repr. 1B; H360  
STOT SE 3; H335  
STOT RE 2; H373  
Aquatic Acute 1; H400  
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### GB CLP Regulation

##### Hazard components for labelling

Diethylmethylbenzenediamine  
Cyclohex-1,2-ylenediamine  
4,4'-isopropylidenediphenol; bisphenol A  
p-toluenesulphonic acid

**Signal word:** Danger



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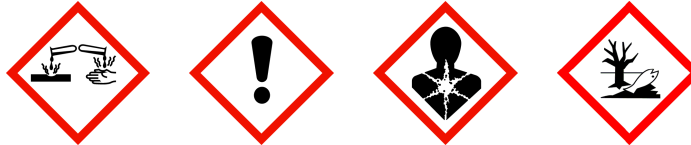
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### Pictograms:



### Hazard statements

H302+H312	Harmful if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

### Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P260	Do not breathe the mist/vapours/spray.
P201	Obtain special instructions before use.

### 2.3. Other hazards

Endocrine disrupting properties: 4,4'-isopropylidenediphenol; bisphenol A.  
This substance/mixture does not contain any components at concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Environmental information: This substance/mixture contains components considered to have endocrine disrupting properties for the environment according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Toxicological information: This substance/mixture contains components considered to have endocrine disrupting properties that affect human health in accordance with Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Polyamine

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**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
68479-98-1	diethylmethylbenzenediamine			>= 50 - < 70 %
	270-877-4	612-130-00-0	01-2119486805-25	
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H312 H302 H319 H373 H400 H410			
694-83-7	Cyclohex-1,2-ylendiamine			>= 10 - < 20 %
	211-776-7		01-2119976312-37	
	Repr. 2, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3; H361 H312 H302 H314 H318 H335			
80-05-7	4,4'-isopropylidenediphenol; bisphenol A			>= 10 - < 20 %
	201-245-8	604-030-00-0		
	Repr. 1B, Eye Dam. 1, Skin Sens. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H360F H318 H317 H335 H400 H410			
104-15-4	p-toluenesulphonic acid			>= 1 - < 10 %
	203-180-0		01-2119538811-39	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
68479-98-1	270-877-4	diethylmethylbenzenediamine	>= 50 - < 70 %
	dermal: LD50 = 128 mg/kg; oral: LD50 = 738 mg/kg		
694-83-7	211-776-7	Cyclohex-1,2-ylendiamine	>= 10 - < 20 %
	dermal: LD50 = 1870 mg/kg; oral: LD50 = 1170 mg/kg		
80-05-7	201-245-8	4,4'-isopropylidenediphenol; bisphenol A	>= 10 - < 20 %
	inhalation: LC50 = 170 mg/l (vapours); dermal: LD50 = 6400 mg/kg; oral: LD50 = > 2 000 - < 5 000 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=10		
104-15-4	203-180-0	p-toluenesulphonic acid	>= 1 - < 10 %
	inhalation: LC50 = >= 50 - <= 100 mg/l (vapours)		

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

After ingestion the stomach must be emptied by a doctor using a probe. Remove affected persons from the danger zone. Consult a doctor. Show this safety data sheet to the attending physician. Symptomatic treatment. If symptoms occur, seek medical attention.

**After inhalation**

Consult a physician after serious exposure. If inhaled, remove to fresh air. If symptoms occur, seek medical attention.

**After contact with skin**

Immediate medical treatment required because injuries that are not treated are hard to cure. If on the skin, rinse well with water. If on clothes, take off clothes.



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#### **After contact with eyes**

Small splashes in the eyes can cause irreversible tissue damage and blindness. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue to flush eyes during transport to hospital. Remove contact lenses. Keep eye wide open when rinsing. Consult a medical specialist if eye irritation persists.

#### **After ingestion**

Keep airways clear. Do NOT induce vomiting. never give an unconscious person things thru the mouth Consult a doctor when complaints persist. Take patient to hospital immediately.

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

None known.

#### **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 mist, extinguishing powder, foam, carbon dioxide.

##### **Unsuitable extinguishing media**

High power water jet.

#### **5.2. Special hazards arising from the substance or mixture**

Do not allow run-off water from firefighting operations to enter sewage or watercourses.

Hazardous combustion products: , Nitrogen oxides (NO<sub>x</sub>).

#### **5.3. Advice for firefighters**

In case of fire, wear self-contained breathing apparatus if necessary.

#### **Additional information**

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. Provide adequate ventilation.

#### **6.2. Environmental precautions**

Take precautions to prevent the product from entering the sewage system. Prevent further leakage or spillage if this can be done without risk. In case of contamination of water or sewage system, inform the competent authorities.

#### **6.3. Methods and material for containment and cleaning up**

##### **For cleaning up**

Absorb with inert liquid-binding material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place in suitable and sealed containers for disposal.

##### **Other information**

Stop leak if safe to do so. Dilute with plenty of water. Notify the responsible authority when the substance enters open water, the soil, or sewerage system. Absorb with sand, earth, or another absorbent substance. The product must be disposed of by an approved company in accordance with the local government regulations.

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Personal protective equipment see Section 8 Avoid contact during pregnancy and while nursing. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Do not breathe in vapours or



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spray mists. Avoid release to the environment. Provide adequate room ventilation, if necessary with vapour extraction at the workplace. Keep only in the original container.

#### Advice on protection against fire and explosion

Personal protective equipment see Section 8 Avoid contact during pregnancy and while nursing. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Do not breathe in vapours or spray mists. Avoid release to the environment. Provide adequate room ventilation, if necessary with vapour extraction at the workplace. Keep only in the original container.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Immediately take off soiled, impregnated clothing. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available.

#### Further information on handling

Do not smoke, eat, or drink during work. Take off contaminated clothing and wash it before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed in a dry, well-ventilated place. Carefully close opened containers and store upright to prevent any leakage. Follow the instructions on the label. Store in correctly labeled containers.

##### Further information on storage conditions

Recommended temperature for storage: 2 - 40 °C

#### 7.3. Specific end use(s)

No data available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
80-05-7	Bisphenol A, inhalable dust	-	2		TWA (8 h)	WEL

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**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
68479-98-1	diethylmethylbenzenediamine			
Worker DNEL, long-term		inhalation	systemic	0,13 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,1 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	1 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,1 mg/kg bw/day
694-83-7	Cyclohex-1,2-ylendiamine			
Worker DNEL, long-term		inhalation	local	0,27 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	0,53 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	0,13 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	0,27 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	0,25 mg/kg bw/day
104-15-4	p-toluenesulphonic acid			
Worker DNEL, long-term		dermal	systemic	7,6 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	53,6 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	8,7 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	2,5 mg/kg bw/day

**PNEC values**

CAS No	Substance	Value
68479-98-1	diethylmethylbenzenediamine	
Freshwater		0,001 mg/l
Freshwater (intermittent releases)		0,005 mg/l
Marine water		0,0001 mg/l
Freshwater sediment		0,029 mg/kg
Marine sediment		0,003 mg/kg
Secondary poisoning		2 mg/kg
Micro-organisms in sewage treatment plants (STP)		17 mg/l
Soil		0,005 mg/kg
104-15-4	p-toluenesulphonic acid	
Freshwater		0,073 mg/l
Freshwater (intermittent releases)		0,073 mg/l
Marine water		0,0073 mg/kg
Freshwater sediment		0,0577 mg/kg
Marine sediment		0,00577 mg/kg
Micro-organisms in sewage treatment plants (STP)		58 mg/l
Soil		0,016 mg/kg



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#### Additional advice on limit values

4,4'-Isopropylidendiphenole, Bisphenol A:

Further information: A risk of fruit damage need not be feared if the occupational exposure limit value and the biological limit value (BGW) are observed.

TWA (EC) (inhalable portion): 2 mg/m<sup>3</sup>, 2017/164/EU

Further information: Indicative

TWA (EC) (inhalable portion): 2 mg/m<sup>3</sup>, 2004/37/EC

#### 8.2. Exposure controls

##### Appropriate engineering controls

Ensure adequate ventilation of the storage area. The exposure level should be below the permissible exposure level (PEL) or maximum allowable concentration (TLV) is held for this product. If exposure exceeds recommended levels, use a cartridge respirator or gas mask with NIOSH approval is recommended. If necessary, technical protection measures are carried out in order to reduce exposure.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Eye wash bottle with pure water. Tightly fitting safety goggles. In case of processing difficulties, wear face shield and protective suit.

##### Hand protection

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. Material of gloves for long term application (BTT > 480 min): Butyl rubber, Ethylvinylalkohollaminat (EVAL), nitrile rubber, neoprene rubber, polyvinyl chloride (PVC). Material of gloves for short-term use / Pritzer (10 min < BTT < 480 min): Butyl rubber, Ethylvinylalkohollaminat (EVAL), nitrile rubber, polyvinyl chloride (PVC). There are in accordance with accepted standards such as for example EN 374 (Europe), F739 (U.S.) tested gloves are used. The suitability and durability of a glove is dependent on the use, eg the contact frequency and duration, the skill. Let us advise you always have the gloves. Additional information can for example be found under [www.gisbau.de](http://www.gisbau.de)

##### Skin protection

Use personal protection equipment.

##### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	yellow
Flash point:	150 °C
Decomposition temperature:	> 200 °C
Vapour pressure:	0,1 hPa
(at 25 °C)	
Density (at 20 °C):	1 g/cm <sup>3</sup>

### 9.2. Other information

#### Other safety characteristics

Viscosity / dynamic: 250 - 350 mPa·s  
(at 25 °C)

#### Further Information

No data available.

## SECTION 10: Stability and reactivity



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#### 10.1. Reactivity

Known case of appropriate storage and handling of dangerous reactions.

#### 10.2. Chemical stability

stable

#### 10.3. Possibility of hazardous reactions

The product is stable under storage at normal ambient temperatures.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

The product is stable under storage at normal ambient temperatures.

### SECTION 11: Toxicological information

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

##### Acute toxicity

Harmful if swallowed.

Harmful in contact with skin.

##### ATEmix calculated

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
68479-98-1	diethylmethylbenzenediamine				
	oral	LD50 738 mg/kg	rat		
	dermal	LD50 128 mg/kg	rat		
694-83-7	Cyclohex-1,2-ylendiamine				
	oral	LD50 1170 mg/kg	rat		
	dermal	LD50 1870 mg/kg	rat		
80-05-7	4,4'-isopropylidenediphenol; bisphenol A				
	oral	LD50 > 2 000 - < 5 000 mg/kg	rat		
	dermal	LD50 6400 mg/kg	rabbit		
	inhalation (4 h) vapour	LC50 170 mg/l			
104-15-4	p-toluenesulphonic acid				
	inhalation vapour	LC50 >= 50 - <= 100 mg/l	rat		

##### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

##### Sensitising effects

May cause an allergic skin reaction. (4,4'-isopropylidenediphenol; bisphenol A)



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**Carcinogenic/mutagenic/toxic effects for reproduction**

May damage fertility or the unborn child. (4,4'-isopropylidenediphenol; 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**

May cause respiratory irritation.

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (diethylmethylbenzenediamine)

**Aspiration hazard**

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

**11.2. Information on other hazards****Endocrine disrupting properties**

This substance/mixture contains components considered to have endocrine disrupting properties that affect human health in accordance with Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

**SECTION 12: Ecological information****12.1. Toxicity**

Very toxic to aquatic life.  
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
68479-98-1	diethylmethylbenzenediamine					
	Acute fish toxicity	LC50 200 mg/l	96 h	Leuciscus idus (golden orfe)		DIN 38412
	Acute algae toxicity	ErC50 104 mg/l	72 h	(Desmodesmus subspicatus (Grünalge))		OECD-Prüfrichtlinie 201
	Acute crustacea toxicity	EC50 0,5 mg/l	48 h	Daphnia magna (Big water flea)		Richtlinie 67/548/EWG, Anhang V, C.2
694-83-7	Cyclohex-1,2-ylendiamine					
	Acute fish toxicity	LC50 200 mg/l	96 h	Leuciscus idus (golden orfe)		DIN 38412
	Acute algae toxicity	ErC50 29,6 mg/l	72 h			
	Acute crustacea toxicity	EC50 19,8 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
80-05-7	4,4'-isopropylidenediphenol; bisphenol A					
	Acute fish toxicity	LC50 7,5 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 2,5 - 3,1 mg/l	96 h	Selenastrum capricornutum (Grünalge)		
	Acute crustacea toxicity	EC50 3,9 - 10,2 mg/l	48 h	Ceriodaphnia dubia (Wasserfloh)		
104-15-4	p-toluenesulphonic acid					
	Acute fish toxicity	LC50 325 mg/l	96 h	Leuciscus idus (golden orfe)		OECD 203
	Acute algae toxicity	ErC50 73 mg/l	72 h	Selenastrum capricornutum (Grünalge)		OECD 201
	Acute crustacea toxicity	EC50 103 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202

**12.2. Persistence and degradability**

This substance/mixture does not contain any components at concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
68479-98-1	diethylmethylbenzenediamine			
		< 60 %	28	
	Not readily biodegradable.			
80-05-7	4,4'-isopropylidenediphenol; bisphenol A			
		1 - 2 %	28	
	Not readily biodegradable.			

**12.3. Bioaccumulative potential**

This substance/mixture does not contain any components at concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
68479-98-1	diethylmethylbenzenediamine	1,17
694-83-7	Cyclohex-1,2-ylendiamine	< -0,9
80-05-7	4,4'-isopropylidenediphenol; bisphenol A	3,32
104-15-4	p-toluenesulphonic acid	0,41

**12.4. Mobility in soil**

Diethylmethylbenzenediamine:

Distribution between the environmental compartments: Koc: 31,72 - 551

**12.5. Results of PBT and vPvB assessment**

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

This substance/mixture does not contain any components at concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

**12.6. Endocrine disrupting properties**

Endocrine disrupting properties: 4,4'-isopropylidenediphenol; bisphenol A.

**12.7. Other adverse effects**

An environmental hazard cannot be excluded in case of improper handling or disposal. Very toxic to aquatic organisms, with long lasting effects.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of contents and container in accordance with all local, regional, national and international laws.

Dispose of waste. Do not pour waste down the drain. Do not contaminate standing or flowing water with chemical or packaging material.

**Contaminated packaging**

Empty residues. Dispose of as unused product. Do not reuse empty containers.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 2735

**14.2. UN proper shipping name:**POLYAMINE, FLÜSSIG, ÄTZEND, N.A.G. (1,2-DIAMINO  
CYCLOHEXANE, DIETHYLTOLUENEDIAMINE)**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

II

Hazard label:

8



Classification code:

C7

Limited quantity:

1 L

Excepted quantity:

E2

Transport category:

2

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:**POLYAMINE, FLÜSSIG, ÄTZEND, N.A.G. (1,2-DIAMINO  
CYCLOHEXANE, DIETHYLTOLUENEDIAMINE)

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**14.3. Transport hazard class(es):** 8**14.4. Packing group:** II

Hazard label: 8



Classification code: C7

**Marine transport (IMDG)****14.1. UN number or ID number:** UN 2735**14.2. UN proper shipping name:** Polyamines, liquid, corrosive, n.o.s. (1,2-DIAMINO CYCLOHEXANE, DIETHYLTOLUENEDIAMINE)**14.3. Transport hazard class(es):** 8**14.4. Packing group:** II

Hazard label: 8



Special Provisions: 274

Limited quantity: 1 L

Excepted quantity: E2

EmS: F-A, S-B

Segregation group: 1 - acids

**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. (1,2-DIAMINO CYCLOHEXANE, DIETHYLTOLUENEDIAMINE)**14.3. Transport hazard class(es):** 8**14.4. Packing group:** II

Hazard label: 8



Limited quantity Passenger: 0.5 L

Passenger LQ: Y840

Excepted quantity: E2

IATA-packing instructions - Passenger: 851

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes

**14.6. Special precautions for user**

Marine pollutant: DIETHYLTOLUENEDIAMINE

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable to product as delivered.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

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**Authorisations (REACH, annex XIV):**

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

4,4'-isopropylidenediphenol; bisphenol A

**Restrictions on use (REACH, annex XVII):**

Entry 3, Entry 66, Entry 75

**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 or nursing mothers. Observe employment restrictions for women of child-bearing age.

**Water hazard class (D):**

3 - highly hazardous to water

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1.

**Abbreviations and acronyms**

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

Repr: Reproductive toxicity

STOT SE: Specific target organ toxicity - single exposure

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H302+H312	Harmful if swallowed or in contact with skin.
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.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H360F	May damage fertility.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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