

## ABS-CEA part B

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

#### 1.1. Product identifier

Product name : ABS-CEA part B  
 Registration number REACH : Not applicable (mixture)  
 Product type REACH : Mixture

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

##### 1.2.1 Relevant identified uses

Hardener

##### 1.2.2 Uses advised against

No uses advised against known

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

##### Supplier of the safety data sheet

ABS Technics BVBA  
 Lemmensblok 31  
 B-2400 Mol  
 +32 478 50 30 99  
 johan.kenis@abstechnics.com

#### 1.4. Emergency telephone number

24h/24h:  
 +32 478 50 30 99

### SECTION 2: Hazards identification

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

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Acute Tox.	category 4	H312: Harmful in contact with skin.
Acute Tox.	category 4	H302: Harmful if swallowed.
STOT RE	category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Eye Dam.	category 1	H318: Causes serious eye damage.
Skin Irrit.	category 2	H315: Causes skin irritation.
Aquatic Acute	category 1	H400: Very toxic to aquatic life.
Aquatic Chronic	category 1	H410: Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements



Contains: diethylmethylbenzenediamine; 2-propanamine, compd. with boron trifluoride, reaction products with Bu glycidyl ether.

**Signal word** Danger

##### H-statements

H302 + H312 Harmful if swallowed or in contact with skin.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H318 Causes serious eye damage.  
 H315 Causes skin irritation.  
 H410 Very toxic to aquatic life with long lasting effects.

##### P-statements

P280 Wear protective gloves, protective clothing and eye protection/face protection.  
 P260 Do not breathe vapours/mist.  
 P302 + P352 IF ON SKIN: Wash with plenty of water and soap.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P330 Rinse mouth.  
 P310 Immediately call a POISON CENTER/doctor.

#### 2.3. Other hazards

No other hazards known

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
diethylmethylbenzenediamine	68479-98-1 270-877-4	60% ≤C<100%	Acute Tox. 4; H312 Acute Tox. 4; H302 STOT RE 2; H373 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(10)	Constituent
2-propanamine, compd. with boron trifluoride, reaction products with Bu glycidyl ether	68478-97-7 270-846-5	1%≤C<5%	Acute Tox. 4; H302 Skin Corr. 1B; H314	(1)(10)	Constituent

(1) For H-statements in full: see heading 16

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

#### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact:

Wash immediately with lots of water. Do not apply (chemical) neutralizing agents without medical advice. Soap may be used. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist.

#### After ingestion:

Rinse mouth with water. Victim is fully conscious: immediately induce vomiting. Induce vomiting by giving a 0.9 % saline solution. Do not apply (chemical) neutralizing agents without medical advice. Consult a doctor/medical service if you feel unwell.

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

#### 4.2.1 Acute symptoms

##### After inhalation:

No effects known.

##### After skin contact:

Tingling/irritation of the skin.

##### After eye contact:

Corrosion of the eye tissue.

##### After ingestion:

No effects known.

#### 4.2.2 Delayed symptoms

No effects known.

### 4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (not alcohol-resistant).

#### 5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

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

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrofluoric acid, carbon monoxide - carbon dioxide).

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## 5.3. Advice for firefighters

### 5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

### 5.3.2 Special protective equipment for fire-fighters:

Gloves. Face-shield. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. Protective clothing.

Suitable protective clothing

See heading 8.2

### 6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

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

Take up liquid spill into inert absorbent material, e.g.: sand/earth. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Gas/vapour heavier than air at 20°C. Observe strict hygiene. Remove contaminated clothing immediately. Do not discharge the waste into the drain. Keep container tightly closed.

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

#### 7.2.1 Safe storage requirements:

Store in a dark area. Ventilation at floor level. May be stored under nitrogen. Meet the legal requirements. Max. storage time: > 365 day(s).

#### 7.2.2 Keep away from:

Heat sources, oxidizing agents, (strong) acids, (strong) bases.

#### 7.2.3 Suitable packaging material:

Iron.

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

##### b) National biological limit values

If limit values are applicable and available these will be listed below.

#### 8.1.2 Sampling methods

If applicable and available it will be listed below.

#### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

#### 8.1.4 Threshold values

##### DNEL/DMEL - Workers

diethylmethylbenzenediamine

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.13 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	1 mg/kg bw/day	

##### DNEL/DMEL - General population

diethylmethylbenzenediamine

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.1 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	1 mg/kg bw/day	
	Long-term systemic effects oral	0.1 mg/kg bw/day	

**PNEC**

diethylmethylbenzenediamine

Compartments	Value	Remark
Fresh water	0.001 mg/l	
Marine water	0 mg/l	
Aqua (intermittent releases)	0.005 mg/l	
STP	17 mg/l	
Fresh water sediment	0.029 mg/kg sediment dw	
Marine water sediment	0.003 mg/kg sediment dw	
Soil	5.6 µg/kg soil dw	
Oral	2 mg/kg food	

**8.1.5 Control banding**

If applicable and available it will be listed below.

**8.2. Exposure controls**

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

**8.2.1 Appropriate engineering controls**

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

**8.2.2 Individual protection measures, such as personal protective equipment**

Observe strict hygiene. Do not eat, drink or smoke during work.

**a) Respiratory protection:**

Insufficient ventilation: wear respiratory protection.

**b) Hand protection:**

Protective gloves against chemicals (EN374).

Materials	Measured breakthrough time	Thickness	Protection index
nitrile rubber	> 30 minutes	≥0.4 mm	Class 2
nitrile rubber	> 480 minutes	≥0.4 mm	Class 6

- materials (good resistance)

Neoprene, nitrile rubber, PVC.

**c) Eye protection:**

Face shield.

**d) Skin protection:**

Protective clothing.

**8.2.3 Environmental exposure controls:**

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

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

Physical form	Liquid
Odour	Amine-like odour
Odour threshold	No data available
Colour	Brown
Particle size	Not applicable (liquid)
Explosion limits	No data available
Flammability	Non-flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	-32 °C
Boiling point	> 200 °C
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	No data available
Solubility	Water ; poorly soluble Acetone ; > 50 % ; 30 °C 1,2-dichloroethane ; > 50 % ; 30 °C Dimethylformamide ; > 50 % ; 30 °C Heptane ; > 17.5 % ; 30 °C Methyl isobutyl ketone ; > 50 % ; 30 °C Tetrahydrofuran ; > 50 % ; 30 °C Toluene ; > 50 % ; 30 °C
Relative density	1.02
Decomposition temperature	No data available

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Auto-ignition temperature	No data available
Flash point	> 100 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	8.0 ; 0.1 %

## 9.2. Other information

Absolute density	1020 kg/m <sup>3</sup>
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating increases the fire hazard. Basic reaction.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

#### Precautionary measures

Keep away from naked flames/heat.

### 10.5. Incompatible materials

Oxidizing agents, (strong) acids, (strong) bases.

### 10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrofluoric acid, carbon monoxide - carbon dioxide).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1 Test results

#### Acute toxicity

##### ABS-CEA part B

No (test)data on the mixture available

Classification is based on the relevant ingredients  
diethylmethylbenzenediamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	738 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Dermal			category 4			Annex VI	
Inhalation (aerosol)	LC50		> 2.45 mg/l	1 h	Rat (male / female)	Experimental value	

Classification of this substance is debatable as it does not correspond to the conclusion from the test

2-propanamine, compd. with boron trifluoride, reaction products with Bu glycidyl ether

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		730 mg/kg bw		Rat (male / female)	Experimental value	

#### Conclusion

Harmful if swallowed.

Harmful in contact with skin.

Not classified as acute toxic if inhaled

#### Corrosion/irritation

##### ABS-CEA part B

No (test)data on the mixture available

Classification is based on the relevant ingredients  
diethylmethylbenzenediamine

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	EPA 16 CFR 1500.42		24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4 h	72 hours	Rabbit	Experimental value	

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2-propanamine, compd. with boron trifluoride, reaction products with Bu glycidyl ether

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating			24; 48; 72 hrs; 7 days	Rabbit	Experimental value	Single treatment
Skin	Corrosive		24 h	24; 72 hours	Rabbit	Experimental value	

**Conclusion**

Causes skin irritation.  
Causes serious eye damage.  
Not classified as irritating to the respiratory system

**Respiratory or skin sensitisation**

ABS-CEA part B

No (test)data on the mixture available  
Judgement is based on the relevant ingredients  
diethylmethylbenzenediamine

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing			24; 48 hours	Guinea pig	Experimental value	

2-propanamine, compd. with boron trifluoride, reaction products with Bu glycidyl ether

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 429			Mouse (female)	Experimental value	

**Conclusion**

Not classified as sensitizing for skin  
Not classified as sensitizing for inhalation

**Specific target organ toxicity**

ABS-CEA part B

No (test)data on the mixture available  
Judgement is based on the relevant ingredients  
diethylmethylbenzenediamine

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (diet)	NOAEL	Equivalent to OECD 408	8 mg/kg bw/day		No effect	90 day(s)	Rat (male)	Experimental value
Oral	LOAEL	Equivalent to OECD 408	21 mg/kg bw/day	Various organs	Weight reduction	90 day(s)	Rat (male)	Experimental value
Oral	LOAEL	Equivalent to OECD 408	27 mg/kg bw/day	Various organs	Weight reduction	90 day(s)	Rat (female)	Experimental value
Dermal	NOAEL	Subchronic toxicity test	> 100 mg/l		No effect	3 weeks (5 days / week)	Rabbit (male / female)	Experimental value

**Conclusion**

May cause damage to organs through prolonged or repeated exposure.

**Mutagenicity (in vitro)**

ABS-CEA part B

No (test)data on the mixture available  
diethylmethylbenzenediamine

Result	Method	Test substrate	Effect	Value determination
Positive with metabolic activation	OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value
Ambiguous	OECD 473	Human lymphocytes		Experimental value

2-propanamine, compd. with boron trifluoride, reaction products with Bu glycidyl ether

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value

**Mutagenicity (in vivo)**

ABS-CEA part B

No (test)data on the mixture available  
Judgement is based on the relevant ingredients  
diethylmethylbenzenediamine

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474		Mouse (male / female)	Blood	Experimental value

**Conclusion**

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Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

### ABS-CEA part B

No (test) data on the mixture available

Judgement is based on the relevant ingredients

diethylmethylbenzenediamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Oral	LOAEL	Equivalent to OECD 451	> 3.2 mg/kg bw/day	104 weeks (daily)	Rat (male)	Carcinogenicity	Liver	Experimental value
Oral	LOAEL	Equivalent to OECD 451	> 3.8 mg/kg bw/day	104 weeks (daily)	Rat (female)	Carcinogenicity	Liver	Experimental value
Oral	LOAEL	Equivalent to OECD 451	> 3.2 mg/kg bw/day	104 weeks (daily)	Rat (male)	Tumor formation	Thyroid	Experimental value
Oral	LOAEL	Equivalent to OECD 451	≥ 3.8 mg/kg bw/day	104 weeks (daily)	Rat (female)	Tumor formation	Thyroid	Experimental value
Oral	LOAEL	Equivalent to OECD 451	> 1.8 mg/kg bw/day	104 weeks (daily)	Rat (female)	Tumor formation	Mammary gland	Experimental value

### Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

### ABS-CEA part B

No (test) data on the mixture available

Judgement is based on the relevant ingredients

diethylmethylbenzenediamine

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	OECD 414	7.83 mg/kg bw/day	20 days (gestation, daily)	Rat	No effect	Foetus	Experimental value
Maternal toxicity	NOEL	OECD 414	2.63 mg/kg bw/day	20 days (gestation, daily)	Rat (female)	No effect		Experimental value
Effects on fertility								Data waiving

### Conclusion

Not classified for reprotoxic or developmental toxicity

## Toxicity other effects

### ABS-CEA part B

No (test) data on the mixture available

## Chronic effects from short and long-term exposure

### ABS-CEA part B

Enlargement/affection of the liver. Affection of the renal tissue.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### ABS-CEA part B

No (test) data on the mixture available

Classification is based on the relevant ingredients

diethylmethylbenzenediamine

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	DIN 38412-15	200 mg/l	48 h	Leuciscus idus	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	EU Method C.2	0.5 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	ErC50	OECD 201	104 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP
	NOEC	OECD 201	32 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea								Data waiving
Toxicity aquatic micro-organisms	EC50	Other	> 170 mg/l	24 h	Pseudomonas putida	Static system	Fresh water	Experimental value; Nominal concentration

	Parameter	Method	Value	Duration	Species	Value determination
Toxicity soil micro-organisms						Data waiving
Toxicity terrestrial plants						Data waiving
Toxicity birds						Data waiving

**Conclusion**

Very toxic to aquatic life with long lasting effects.  
Very toxic to aquatic life.

**12.2. Persistence and degradability**

diethylmethylbenzenediamine

**Biodegradation water**

Method	Value	Duration	Value determination
EU Method C.4	0 %; Oxygen consumption	28 day(s)	Experimental value

**Phototransformation air (DT50 air)**

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	1.48 h	500000 /cm <sup>3</sup>	QSAR

**Conclusion**

Contains non readily biodegradable component(s)

**12.3. Bioaccumulative potential**

ABS-CEA part B

**Log Kow**

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

diethylmethylbenzenediamine

**BCF other aquatic organisms**

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.00	2.75; Fresh weight			QSAR

**Log Kow**

Method	Remark	Value	Temperature	Value determination
OECD 107		1.4	25 °C	Experimental value

2-propanamine, compd. with boron trifluoride, reaction products with Bu glycidyl ether

**Log Kow**

Method	Remark	Value	Temperature	Value determination
	No data available			

**Conclusion**

Does not contain bioaccumulative component(s)

**12.4. Mobility in soil**

diethylmethylbenzenediamine

**(log) Koc**

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v1.66	2.12 - 2.23	QSAR

**Conclusion**

Contains component(s) with potential for mobility in the soil



## 12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

## 12.6. Other adverse effects

ABS-CEA part B

### Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

### Groundwater

Groundwater pollutant

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

##### European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09\* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

#### 13.1.3 Packaging/Container

##### European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### Road (ADR)

14.1. UN number	
UN number	3082
14.2. UN proper shipping name	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (diethylmethylbenzenediamine)
14.3. Transport hazard class(es)	
Hazard identification number	90
Class	9
Classification code	M6
14.4. Packing group	
Packing group	III
Labels	9
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

### Rail (RID)

14.1. UN number	
UN number	3082
14.2. UN proper shipping name	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (diethylmethylbenzenediamine)
14.3. Transport hazard class(es)	
Hazard identification number	90
Class	9
Classification code	M6
14.4. Packing group	

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Packing group	III
Labels	9
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance mark	yes
<b>14.6. Special precautions for user</b>	
Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Inland waterways (ADN)

<b>14.1. UN number</b>	
UN number	3082
<b>14.2. UN proper shipping name</b>	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (diethylmethylbenzenediamine)
<b>14.3. Transport hazard class(es)</b>	
Class	9
Classification code	M6
<b>14.4. Packing group</b>	
Packing group	III
Labels	9
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance mark	yes
<b>14.6. Special precautions for user</b>	
Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Sea (IMDG/IMSBC)

<b>14.1. UN number</b>	
UN number	3082
<b>14.2. UN proper shipping name</b>	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (diethylmethylbenzenediamine)
<b>14.3. Transport hazard class(es)</b>	
Class	9
<b>14.4. Packing group</b>	
Packing group	III
Labels	9
<b>14.5. Environmental hazards</b>	
Marine pollutant	P
Environmentally hazardous substance mark	yes
<b>14.6. Special precautions for user</b>	
Special provisions	274
Special provisions	335
Special provisions	969
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>	
Annex II of MARPOL 73/78	Not applicable, based on available data

## Air (ICAO-TI/IATA-DGR)

<b>14.1. UN number</b>	
UN number	3082
<b>14.2. UN proper shipping name</b>	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (diethylmethylbenzenediamine)
<b>14.3. Transport hazard class(es)</b>	
Class	9
<b>14.4. Packing group</b>	
Packing group	III
Labels	9
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance mark	yes
<b>14.6. Special precautions for user</b>	

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Special provisions	A97
Special provisions	A158
Special provisions	A197
Passenger and cargo transport	
Limited quantities: maximum net quantity per packaging	30 kg G

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
60 % - 100 %	

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Reference legislation

See column 1: 3.

#### National legislation The Netherlands

ABS-CEA part B

Waterbezwaarlijkheid	A (1); Algemene Beoordelingsmethodiek
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#### National legislation Germany

ABS-CEA part B

WGK	2; Classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) of 18 April 2017
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diethylmethylenediamine

TA-Luft	5.2.5; I; I
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### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

## SECTION 16: Other information

#### Full text of any H-statements referred to under heading 3:

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- 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.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

#### M-factor

diethylmethylenediamine	1	Acute	BIG
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The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information

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