

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

**1.1. Product identifier**

Product form : Mixture  
 Product name : EAA.020-B

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

**1.2.1. Relevant identified uses**

No additional information available

**1.2.2. Uses advised against**

No additional information available

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

Sidec  
 Industrieweg 10  
 2490 Balen - BELGIE  
 T +32 14 81 50 01  
[safety@sidec.be](mailto:safety@sidec.be) - [www.sidec.eu](http://www.sidec.eu)

**1.4. Emergency telephone number**

Country	Organisation/Company	Address	Emergency number
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+32 70 245 245

**SECTION 2: Hazards identification**

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

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

Acute Tox. 4 (Oral) H302  
 Acute Tox. 4 (Inhalation:dust,mist) H332  
 Skin Corr. 1 H314  
 Skin Sens. 1 H317  
 Aquatic Chronic 3 H412

Full text of H statements : see section 16

**2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :    
 GHS05 GHS07

Signal word (CLP) : Danger  
 Hazardous ingredients : Benzylic alcohol; Polyoxypropylenediamine; Trimethylhexamethylenediamine (2,2,4- and 2,4,4-mixture); 3-aminomethyl-3,5,5-trimethylcyclohexylamine; Phosphoric trichloride, reaction products with propylene oxide  
 Hazard statements (CLP) : H302+H332 - Harmful if swallowed or if inhaled  
 H314 - Causes severe skin burns and eye damage.  
 H317 - May cause an allergic skin reaction.  
 H412 - Harmful to aquatic life with long lasting effects.  
 Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 - Wash hands, forearms and face thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P272 - Contaminated work clothing should not be allowed out of the workplace.  
 P273 - Avoid release to the environment.

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### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Benzyl alcohol	(CAS-No.) 100-51-6 (EC-No.) 202-859-9 (EC Index-No.) 603-057-00-5 (REACH-no) 01-2119492630-38	20 - 50	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319
Polyoxypropylenediamine	(CAS-No.) 9046-10-0 (REACH-no) 01-2119557899-12	10 - 25	Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Trimethylhexamethylenediamine (2,2,4- and 2,4,4- mixture)	(CAS-No.) 25513-64-8 (REACH-no) 01-2119560598-25	10 - 25	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Skin Sens. 1, H317
3-aminomethyl-3,5,5-trimethylcyclohexylamine	(CAS-No.) 2855-13-2 (EC-No.) 220-666-8 (EC Index-No.) 612-067-00-9 (REACH-no) 01-2119514687-32	10 - 25	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Phosphoric trichloride, reaction products with propylene oxide	(CAS-No.) 1244733-77-4 (REACH-no) 01-2119486772-26	2 - 6	Acute Tox. 4 (Oral), H302

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Remove contaminated clothes.
First-aid measures after inhalation	: Take victim to fresh air, in a quiet place and if necessary take medical advice.
First-aid measures after skin contact	: Wash off immediately with soap and plenty of water. If on skin and if skin irritation occurs, seek medical advice and attention.
First-aid measures after eye contact	: Rinse opened eye for several minutes under running water. Then consult doctor.
First-aid measures after ingestion	: Immediately give plenty of water. Take victim to fresh air, in a quiet place. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects : No supplementary information available.

### 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 : carbon dioxide (CO<sub>2</sub>). extinguishing powder. Strong water jet. Alcohol resistant foam.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting	: Self-contained breathing apparatus.
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose in a safe manner in accordance with local/national regulations.

## SECTION 6: Accidental release measures

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

General measures : Use protective clothing. Keep public away.

#### 6.1.1. For non-emergency personnel

No additional information available

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### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent liquid from entering sewers, watercourses, underground or low areas.

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

For containment : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel).

Other information : Carefully recover the remainder.

### 6.4. Reference to other sections

Concerning disposal elimination after cleaning, see section 13. Concerning personal protective equipment to use, see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Ensure good ventilation of the work station.

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

Storage conditions : Keep only in original container.

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

Storage area : The floor of the depot should be impermeable and designed to form a water-tight basin.

Special rules on packaging : Store in tightly closed containers.

### 7.3. Specific end use(s)

No supplementary information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls : Keep away from food, drink and animal feedingstuffs. Take off contaminated clothing. Wash hands before break and at end of works. Do not breathe dust. Avoid all contact with skin, eyes, or clothing.

Personal protective equipment : Dust/aerosol mask with filter type P2. Gloves. Protective goggles.

Hand protection : Chemical resistant gloves (according to European standard EN 374 or equivalent). The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Since the product consists of several substances, it is possible to estimate the durability of the glove material beforehand and it therefore needs to be tested before use. Recommended materials. >0,5mm. nbr. Viton. Polyvinylchloride (PVC). unsuitable materials: leather gloves, thick fabric gloves

Eye protection : Protective goggles

Skin and body protection : protective clothing

Respiratory protection : Breathing equipment. By prolonged exposure : Self-contained breathing apparatus with an air line



## SECTION 9: Physical and chemical properties

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

Physical state : Liquid

Colour : yellowish.

Odour : Amine-like.

Odour threshold : No data available

pH : No data available

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Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 200 °C
Flash point	: > 100 °C
Auto-ignition temperature	: 240 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 0,3 hPa
Relative vapour density at 20 °C	: No data available
Relative density	: 1
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 200 mPa·s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0,7 - 13 vol %

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No supplementary information available.

### 10.2. Chemical stability

No decomposition if used as directed.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

No supplementary information available.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

In case of fire: May liberate toxic gases. Corrosive vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.

ATE CLP (oral)	756,822 mg/kg bodyweight
ATE CLP (dust,mist)	3,191 mg/l/4h

#### Benzylic alcohol (100-51-6)

LD50 oral rat	1620 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 4,178 mg/l air

#### Polyoxypropylenediamine (9046-10-0)

LD50 oral rat	2885 mg/kg
LD50 dermal rabbit	2980 mg/kg

#### Trimethylhexamethylenediamine (2,2,4- and 2,4,4- mixture) (25513-64-8)

LD50 oral rat	910
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#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)

LD50 oral rat	1030 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 inhalation rat (mg/l)	> 5,01 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Serious eye damage, category 1, implicit

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Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>Benzylic alcohol (100-51-6)</b>	
LC50 fish 1	460 mg/l
EC50 Daphnia 1	230 mg/l
LC50 fish 2	10 mg/l
ErC50 (algae)	770 mg/l
Threshold limit algae 1	640 mg/l
<b>Polyoxypropylenediamine (9046-10-0)</b>	
LC50 fish 1	> 15 mg/l (Ochorhyncus mykiss (Regenbogenforelle))
EC50 Daphnia 1	80 (Daphnia magna (Wasserfloh)) (EC50(48h))
<b>Trimethylhexamethylenediamine (2,2,4- and 2,4,4- mixture) (25513-64-8)</b>	
LC50 fish 1	174 mg/l (Leuciscus idus) (LC50(48h))
EC50 Daphnia 1	31,5 mg/l (Daphnia magna (Wasserfloh)) (EC50(24h))
<b>3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)</b>	
LC50 fish 1	110 mg/l
EC50 Daphnia 1	23 mg/l
LC50 fish 2	110 mg/l

#### 12.2. Persistence and degradability

<b>Benzylic alcohol (100-51-6)</b>	
Biochemical oxygen demand (BOD)	1,6 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2,4 g O <sub>2</sub> /g substance
ThOD	2,5 g O <sub>2</sub> /g substance

#### 12.3. Bioaccumulative potential

<b>Benzylic alcohol (100-51-6)</b>	
Log Pow	1 - 1,1
<b>3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)</b>	
BCF other aquatic organisms 1	3,16
Log Pow	0,99

#### 12.4. Mobility in soil

<b>Benzylic alcohol (100-51-6)</b>	
Surface tension	39 mN/m
<b>3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)</b>	
Surface tension	3,47 N/m

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

Component	
Benzylic alcohol (100-51-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6. Other adverse effects

Additional information : Hazardous to water (WGK 2). Harmful to aquatic organisms. Danger of pollution of drinking water when product enters the soil. Do not flush into surface water or sewer system

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations. Ensure all national/local regulations are observed.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : 2735  
UN-No. (IMDG) : 2735  
UN-No. (IATA) : 2735  
UN-No. (ADN) : 2735  
UN-No. (RID) : 2735

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : AMINES, LIQUID, CORROSIVE, N.O.S.  
Proper Shipping Name (IMDG) : AMINES, LIQUID, CORROSIVE, N.O.S.  
Proper Shipping Name (IATA) : Amines, liquid, corrosive, n.o.s.  
Proper Shipping Name (ADN) : AMINES, LIQUID, CORROSIVE, N.O.S.  
Proper Shipping Name (RID) : AMINES, LIQUID, CORROSIVE, N.O.S.  
Transport document description (ADR) : UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (), 8, III, (E)  
Transport document description (IMDG) : UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylene Diamine), 8, III

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : 8  
Danger labels (ADR) : 8



##### IMDG

Transport hazard class(es) (IMDG) : 8  
Danger labels (IMDG) : 8



##### IATA

Transport hazard class(es) (IATA) : 8  
Hazard labels (IATA) : 8



##### ADN

Transport hazard class(es) (ADN) : 8  
Danger labels (ADN) : 8

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### RID

Transport hazard class(es) (RID) : 8  
Danger labels (RID) : 8



### 14.4. Packing group

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : III  
Packing group (RID) : III

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : C7  
Special provisions (ADR) : 274  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T7  
Portable tank and bulk container special provisions (ADR) : TP1, TP28  
Tank code (ADR) : L4BN  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Hazard identification number (Kemler No.) : 80  
Orange plates :



Tunnel restriction code (ADR) : E  
EAC code : 2X  
APP code : B

#### - Transport by sea

Special provisions (IMDG) : 223, 274  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP1, TP28

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EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes.

### - Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L

### - Inland waterway transport

Classification code (ADN)	: C7
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Carriage prohibited (ADN)	: No
Not subject to ADN	: No

### - Rail transport

Classification code (RID)	: C7
Special provisions (RID)	: 274
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP28
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80
Carriage prohibited (RID)	: No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions  
Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

##### Germany

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Reference to AwSV	: Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

### Netherlands

SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

### Denmark

Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
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## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Sens. 1	Skin sensitisation, Category 1
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*