

# Safety Data Sheet

**CERAMIC POLYMER**  
A CHESTERTON INTERNATIONAL SUBSIDIARY

according to Regulation (EC) No 1907/2006

## CN-1M Cartridge Part B

Print date: 18.05.2016

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

#### 1.1. Product identifier

CN-1M Cartridge Part B

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

##### Use of the substance/mixture

Coatings and paints, fillers, putties, thinners

##### Uses advised against

No information available.

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

Company name:	Ceramic Polymer GmbH	
Street:	Daimlerring 9	
Place:	DE-32289 Rödinglehausen	
Telephone:	+49(0) 52 23 / 9 62 76-0	Telefax: +49(0) 52 23 / 9 62 76-17
e-mail:	info@ceramic-polymer.de	
Internet:	www.ceramic-polymer.de	
Responsible Department:	info@ceramic-polymer.de	

#### 1.4. Emergency telephone number:

+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

### 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. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

3-aminomethyl-3,5,5-trimethylcyclohexylamin

benzyl alcohol

m-phenylenebis(methylamine)

3-aminopropyltriethoxysilane

Signal word: Danger

Pictograms:



##### Hazard statements

H302+H332

Harmful if swallowed or if inhaled.

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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

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P362+P364	Take off contaminated clothing and wash it before reuse.
P273	Avoid release to the environment.
P270	Do not eat, drink or smoke when using this product.
P403+P235	Store in a well-ventilated place. Keep cool.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin			35-40 %
	220-666-8	612-067-00-9	01-2119514687-32	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H302 H312 H314 H317 H412			
100-51-6	benzyl alcohol			16-21 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4; H302 H332			
1477-55-0	m-phenylenebis(methylamine)			15-18 %
	216-032-5		01-2119480150-50	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1, Skin Sens. 1, Aquatic Chronic 3; H302 H332 H314 H317 H412 EUH071			
135470-04-1	1,3-Benzenedimethanamine, reaction products with epichlorohydrin			10-15 %
	Aquatic Chronic 2; H411			
919-30-2	3-aminopropyltriethoxysilane			1-2 %
	213-048-4	612-108-00-0	01-2119480479-24	
	Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H302 H314 H317			

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

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

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**After inhalation**

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

**After contact with skin**

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

Do not wash with: Solvents/Thinner

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Do NOT induce vomiting.

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

Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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

First Aid, decontamination, treatment of symptoms.

After contact with skin, wash immediately with plenty of Lutrol.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>). alcohol resistant foam. Water spray jet

**Unsuitable extinguishing media**

High power water jet

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

Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>)

**5.3. Advice for firefighters**

Special protective equipment for firefighters: Protective clothing. In case of fire: Wear self-contained breathing apparatus.

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

**Additional information**

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**

See protective measures under point 7 and 8.

Provide adequate ventilation.

Personal protection equipment: see section 8

Remove persons to safety.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Cover drains. Adverse environmental effects

**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.

**6.4. Reference to other sections**

See protective measures under point 7 and 8. Disposal: see section 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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

See section 8. Wear personal protection equipment (refer to section 8). Keep container tightly closed.

##### **Advice on protection against fire and explosion**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

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

##### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

##### **Advice on storage compatibility**

Keep away from:

Food and feedingstuffs

Oxidising agent

##### **Further information on storage conditions**

Keep away from:

Frost

Heat

Humidity

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

No information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin			
Worker DNEL, long-term		inhalation	local	0,073 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	0,073 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	0,526 mg/kg bw/day
100-51-6	benzyl alcohol			
Worker DNEL, long-term		inhalation	systemic	22 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	110 mg/m <sup>3</sup>
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 <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	27 mg/m <sup>3</sup>
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
1477-55-0	m-phenylenebis(methylamine)			
Worker DNEL, long-term		dermal	systemic	0,33 mg/kg bw/day
Worker DNEL, long-term		inhalation	local	0,2 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	1,2 mg/m <sup>3</sup>
919-30-2	3-aminopropyltriethoxysilane			
Worker DNEL, long-term		inhalation	systemic	59 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	59 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	8,3 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	8,3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	17,4 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	17,4 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	5 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	5 mg/kg bw/day

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### PNEC values

CAS No	Substance	Value
Environmental compartment		
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin	
Freshwater		0,06 mg/l
Marine water		0,006 mg/l
Freshwater sediment		5,784 mg/kg
Marine sediment		0,578 mg/kg
Soil		1,121 mg/kg
100-51-6	benzyl alcohol	
Freshwater		1 mg/l
Marine water		0,1 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
1477-55-0	m-phenylenebis(methylamine)	
Freshwater		0,094 mg/l
Marine water		0,009 mg/l
Freshwater sediment		0,43 mg/kg
Marine sediment		0,043 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,045 mg/kg
919-30-2	3-aminopropyltriethoxysilane	
Freshwater		0,33 mg/l
Marine water		0,033 mg/l
Freshwater sediment		1,2 mg/kg
Marine sediment		0,12 mg/kg
Soil		0,05 mg/kg

### 8.2. Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

#### Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

#### Eye/face protection

Suitable eye protection:

Eye glasses with side protection  
goggles

#### Hand protection

Suitable gloves type:

NBR (Nitrile rubber) DIN EN 374,  
Butyl caoutchouc (butyl rubber) DIN EN 374  
Wear cotton undermitten if possible.

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### Skin protection

Protective clothing

### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Combination filtering device (EN 14387) A-P3

Self-contained respirator (breathing apparatus) (DIN EN 133)

## SECTION 9: Physical and chemical properties

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

Physical state: liquid  
Colour: light yellow  
Odour: like amines

#### Test method

pH-Value: ~11

### Changes in the physical state

Melting point: not determined  
Initial boiling point and boiling range: not determined  
Sublimation point: not determined  
Softening point: not determined  
Pour point: not determined  
Flash point: >65 °C

### Flammability

Solid: not determined  
Gas: not determined

### Explosive properties

No information available.

Lower explosion limits: not determined  
Upper explosion limits: not determined  
Ignition temperature: not determined

### Auto-ignition temperature

Solid: not determined  
Gas: not determined

Decomposition temperature: not determined

### Oxidizing properties

No information available.

Vapour pressure: not determined  
Density (at 20 °C): ~1 g/cm<sup>3</sup>  
Water solubility: partially soluble

### Solubility in other solvents

No information available.

Partition coefficient: not determined  
Viscosity / dynamic:  
(at 23 °C) ~ 180 mPa·s  
Vapour density: not determined

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Evaporation rate: not determined

### 9.2. Other information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Oxidising agent

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

### 10.5. Incompatible materials

Acid, Oxidising agent

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Harmful if swallowed or if inhaled.

#### ATEmix calculated

ATE (oral) 1418,2 mg/kg; ATE (inhalative aerosol) 3,635 mg/l

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin			
	oral	LD50 1030 mg/kg	Rat	
	dermal	ATE 1100 mg/kg		
100-51-6	benzyl alcohol			
	oral	LD50 1620 mg/kg	Rat	
	inhalative vapour	ATE 11 mg/l		
	inhalative (4 h) aerosol	LC50 >4178 mg/l	Rat	
1477-55-0	m-phenylenebis(methylamine)			
	oral	LD50 930 mg/kg	Rat	
	dermal	LD50 >3100 mg/kg	Rabbit	
	inhalative vapour	ATE 11 mg/l		
	inhalative (4 h) aerosol	LC50 1,34 mg/l	Rat	
919-30-2	3-aminopropyltriethoxysilane			
	oral	LD50 1780 mg/kg	Rat	RTECS
	dermal	LD50 3800 mg/kg	Rabbit	RTECS

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

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### Sensitising effects

May cause an allergic skin reaction. (3-aminomethyl-3,5,5-trimethylcyclohexylamin), (m-phenylenebis(methylamine)), (3-aminopropyltriethoxysilane)

### Carcinogenic/mutagenic/toxic effects for reproduction

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

### STOT-single exposure

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

### STOT-repeated exposure

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

### Aspiration hazard

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

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin				
	Acute fish toxicity	LC50 110 mg/l	96 h		
	Acute algae toxicity	ErC50 37 mg/l	72 h		
100-51-6	benzyl alcohol				
	Acute fish toxicity	LC50 460 mg/l	96 h		
	Acute algae toxicity	ErC50 770 mg/l	72 h		
	Acute crustacea toxicity	EC50 230 mg/l	48 h	Daphnia magna (Big water flea)	
	Algae toxicity	NOEC 51 mg/l	3 d		
	Crustacea toxicity	NOEC 310 mg/l	21 d		
1477-55-0	m-phenylenebis(methylamine)				
	Acute fish toxicity	LC50 87,6 mg/l	96 h	Oryzias latipes (Ricefish)	
	Acute algae toxicity	ErC50 20,3 mg/l	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 15,2 mg/l	48 h	Daphnia magna (Big water flea)	
	Algae toxicity	NOEC 10,5 mg/l	3 d	Selenastrum capricornutum	
	Crustacea toxicity	NOEC 4,7 mg/l	21 d	Daphnia magna (Big water flea)	
919-30-2	3-aminopropyltriethoxysilane				
	Acute algae toxicity	ErC50 603 mg/l	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 331 mg/l	48 h	Daphnia magna	

### 12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin			
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	8 %	28	
100-51-6	benzyl alcohol			
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	95 - 97%	21	
1477-55-0	m-phenylenebis(methylamine)			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	49 %	28	

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### **12.3. Bioaccumulative potential**

No information available.

### **Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin	0,99
100-51-6	benzyl alcohol	1,1
1477-55-0	m-phenylenebis(methylamine)	0,18
919-30-2	3-aminopropyltriethoxysilane	0,31

### **BCF**

CAS No	Chemical name	BCF	Species	Source
100-51-6	benzyl alcohol	1		
1477-55-0	m-phenylenebis(methylamine)	<0,3		

### **12.4. Mobility in soil**

No information available.

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

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

### **12.6. Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **Advice on disposal**

Dispose of waste according to applicable legislation.

#### **Contaminated packaging**

Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

### **Land transport (ADR/RID)**

<b>14.1. UN number:</b>	UN 2735
<b>14.2. UN proper shipping name:</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorondiamine, m-phenylenebis(methylamine))
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	II
Hazard label:	8
Classification code:	C7
Special Provisions:	274
Limited quantity:	1 L
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E

#### **Other applicable information (land transport)**

E1  
E2

### **Inland waterways transport (ADN)**

<b>14.1. UN number:</b>	UN 2735
<b>14.2. UN proper shipping name:</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorondiamine, m-phenylenebis(methylamine))

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**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8  
Classification code: C7  
Special Provisions: 274  
Limited quantity: 1 L

**Other applicable information (inland waterways transport)**

E1  
E2

**Marine transport (IMDG)**

**14.1. UN number:** UN 2735  
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorondiamine, m-phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8  
Special Provisions: 274  
Limited quantity: 1 L  
EmS: F-A, S-B  
Segregation group: 18 - alkalis

**Other applicable information (marine transport)**

E1  
E2

**Air transport (ICAO)**

**14.1. UN number:** UN 2735  
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorondiamine, m-phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8  
Special Provisions: A3 A803  
Limited quantity Passenger: 0.5 L  
IATA-packing instructions - Passenger: 851  
IATA-max. quantity - Passenger: 1 L  
IATA-packing instructions - Cargo: 855  
IATA-max. quantity - Cargo: 30 L

**Other applicable information (air transport)**

E1  
Passenger-LQ: Y964  
E2  
Passenger-LQ: Y840

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No information available.

## SECTION 15: Regulatory information

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

#### National regulatory information

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. Observe employment restrictions for women of child-bearing age.

Water contaminating class (D): 2 - water contaminating

### 15.2. Chemical safety assessment

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

3-aminomethyl-3,5,5-trimethylcyclohexylamin  
benzyl alcohol  
m-phenylenebis(methylamine)  
3-aminopropyltriethoxysilane

## SECTION 16: Other information

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international conernat le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Refulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
EC50: Effectice concentration, 50 percent  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

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

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.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H411	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 above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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