

## KA-TS

Version number: 2.0  
Replaces version of: 2017-11-23 (1)

Revision: 2021-03-05  
First version: 2017-07-07

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

#### 1.1 Product identifier

<b>Trade name</b>	<u>KA-TS</u>
<b>Registration number (REACH)</b>	Not relevant (mixture).
<b>CAS number</b>	not relevant (mixture)

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

<b>Relevant identified uses</b>	Building material
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#### 1.3 Details of the supplier of the safety data sheet

PAGEL Spezial-Beton GmbH & Co. KG Wolfsbankring 9 45355 Essen Germany	Telephone: +49 201/68504-0 Telefax: +49 201/68504-31 e-mail: info@pagel.com Website: www.pagel.com
<b>e-mail (competent person)</b>	schempershofe@pagel.de, labor@pagel.de

#### 1.4 Emergency telephone number

Poison centre		
Name	Telephone	Telefax
Giftnotruf Mainz	+49 (0) 6131-19240	+49 (0) 6131 - 23 2468

Beratung in deutscher oder englischer Sprache.  
As above or nearest toxicological information centre.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.8R	specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335

For full text of abbreviations: see SECTION 16

**The most important adverse physicochemical, human health and environmental effects**

Spillage and fire water can cause pollution of watercourses.

**2.2 Label elements**

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

**Signal word** danger

**Pictograms**

**GHS05, GHS07**



**Hazard statements**

- H315** Causes skin irritation.
- H318** Causes serious eye damage.
- H335** May cause respiratory irritation.

**Precautionary statements**

- P101** If medical advice is needed, have product container or label at hand.
- P102** Keep out of reach of children.
- P261** Avoid breathing dust.
- P280** Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P302+P352** IF ON SKIN: Wash with plenty of soap and water.
- P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310** Immediately call a POISON CENTER/doctor.
- P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazardous ingredients for labelling**

portland cement  
 cement, alumina, chemicals  
 flue dust, portland cement

**2.3 Other hazards**

The product develops an alkaline pH value with moisture and can cause irritation. The product contains chromate reducer, which results in a content of water-soluble chrome (VI) of less than 0.0002 %. In case of improper storage (moisture ingress) or storage exceeding the recommended storage time, however, the contained chromate reducer may lose its effect prematurely and a sensitising effect of the cement/binder can occur upon skin contact (H317 and EUH203). The preparation is low in chromium. The content of soluble chromium (VI) compounds has been lowered with agent to below 2 ppm in the cement portion. Proper storage and compliance with the expiration date is a prerequisite for the effectiveness of the chromate reduction.

**Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not relevant (mixture).

**3.2 Mixtures**

**Description of the mixture**

Hazardous ingredients					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
portland cement	CAS No 65997-15-1  EC No 266-043-4	50 – < 75	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1B / H317 STOT SE 3 / H335		
cement, alumina, chemicals	CAS No 65997-16-2  EC No 266-045-5	10 – < 25	Skin Irrit. 2 / H315 Eye Dam. 1 / H318		
flue dust, portland cement	CAS No 68475-76-3  EC No 270-659-9	1 – < 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317 STOT SE 3 / H335		

for full text of H-phrases: see SECTION 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Take off immediately all contaminated clothing.

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

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

In case of respiratory tract irritation, consult a physician.

#### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

Brush off loose particles from skin.

If skin irritation or rash occurs: Get medical advice/attention.

#### Following eye contact

Rinse immediately carefully and thoroughly with eye shower or water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

#### Following ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Get immediate medical advice/attention.

#### Notes for the doctor

None.

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

Cough, pain, choking, and breathing difficulties.

Risk of serious damage to eyes.

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

None.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

water, foam, alcohol resistant foam, fire extinguishing powder, Co-ordinate firefighting measures to the fire surroundings

#### Unsuitable extinguishing media

water jet

## 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

## 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.  
Co-ordinate firefighting measures to the fire surroundings.  
Do not allow firefighting water to enter drains or water courses.  
Collect contaminated firefighting water separately.  
Fight fire with normal precautions from a reasonable distance.

### Special protective equipment for firefighters

self-contained breathing apparatus (SCBA)

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Remove persons to safety.  
Ventilate affected area.  
Control of dust.  
Do not breathe dust.  
Do not get in eyes, on skin, or on clothing.  
Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.  
Retain contaminated washing water and dispose of it.  
If substance has entered a water course or sewer, inform the responsible authority.

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

#### Advice on how to contain a spill

Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically.  
Collect spillage.  
Vacuuming techniques.  
Approved industrial vacuum cleaner.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.  
Ventilate affected area.

## 6.4 Reference to other sections

Personal protective equipment: see section 8.  
Incompatible materials: see section 10.  
Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

#### Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room.  
When diluting, always stir the product into standing water.

#### Measures to protect the environment

Avoid release to the environment.

#### Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Do not breathe dust.  
Do not get in eyes, on skin, or on clothing.  
Wash hands after use.  
Preventive skin protection (barrier creams/ointments) is recommended.

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

#### Flammability hazards

None.

#### Incompatible substances or mixtures

Incompatible materials: see section 10.

#### Protect against external exposure, such as

humidity

#### Consideration of other advice

Keep away from food, drink and animal feeding stuffs.  
Store in a dry place. Store in a closed container.

#### Ventilation requirements

Provision of sufficient ventilation.

#### Packaging compatibilities

Keep only in original container.  
Unsuitable materials: Aluminium.

### 7.3 Specific end use(s)

Industry or sector specific available guidance(s): GISCODE ZP 1.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Notation	Source
GB	dust		WEL		10			i	EH40/2005
GB	dust		WEL		4			r	EH40/2005
GB	gypsum	10101-41-4	WEL		10			i	EH40/2005
GB	gypsum	10101-41-4	WEL		4			r	EH40/2005
GB	portland cement	65997-15-1	WEL		10			i	EH40/2005
GB	portland cement	65997-15-1	WEL		4			r	EH40/2005

Notation

i inhalable fraction

r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
cement, alumina, chemicals	65997-16-2	DNEL	2.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
flue dust, portland cement	68475-76-3	DNEL	0.84 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects

Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
cement, alumina, chemicals	65997-16-2	PNEC	260 mg/l	freshwater
cement, alumina, chemicals	65997-16-2	PNEC	10 mg/l	sewage treatment plant (STP)
flue dust, portland cement	68475-76-3	PNEC	282 µg/l	freshwater

Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
flue dust, portland cement	68475-76-3	PNEC	28 µg/l	marine water
flue dust, portland cement	68475-76-3	PNEC	6 mg/l	sewage treatment plant (STP)
flue dust, portland cement	68475-76-3	PNEC	875 µg/kg	freshwater sediment
flue dust, portland cement	68475-76-3	PNEC	88 µg/kg	marine sediment
flue dust, portland cement	68475-76-3	PNEC	5 mg/kg	sediments

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

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.

#### Other protection measures

Protective clothing for use against solid particulates.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Particulate filter device (EN 143).

P1 (filters at least 80 % of airborne particles, colour code: White).

P2 (filters at least 94 % of airborne particles, colour code: White).

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.



## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	solid
<b>Colour</b>	grey - white
<b>Odour</b>	characteristic
<b>Melting point/freezing point</b>	not determined
<b>Boiling point or initial boiling point and boiling range</b>	not determined
<b>Flammability</b>	non-combustible
<b>Lower and upper explosion limit</b>	not determined
<b>Flash point</b>	not applicable
<b>Auto-ignition temperature (liquids and gases)</b>	not applicable (solid)
<b>Decomposition temperature</b>	not relevant
<b>pH (value)</b>	alkaline (suspension)
<b>Viscosity</b>	not relevant (solid)
<b>Solubility(ies)</b>	
Water solubility	not determined
<b>Partition coefficient n-octanol/water (log value)</b>	not determined
<b>Vapour pressure</b>	not determined
<b>Density and/or relative density</b>	
Density	not determined
Relative vapour density	information on this property is not available
<b>Particle characteristics</b>	no data available

## 9.2 Other information

<b>Information with regard to physical hazard classes</b>	hazard classes acc. to GHS (physical hazards): not relevant
<b>Other safety characteristics</b>	there is no additional information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Reactions with light metals to form hydrogen.

### 10.4 Conditions to avoid

Protect from moisture.

### 10.5 Incompatible materials

acids, aluminium, ammonium compounds, metals

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Classification procedure

If not otherwise specified the classification is based on:  
Ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Test data are not available for the complete mixture.

Acute toxicity of components of the mixture							
Name of substance	CAS No	Exposure route	End-point	Value	Species	Method	Source
cement, alumina, chemicals	65997-16-2	oral	LD50	>2,000 mg/kg	rat, female	OECD Guideline 423	ECHA
cement, alumina, chemicals	65997-16-2	dermal	LD50	>2,000 mg/kg	rat	OECD Guideline 402	ECHA
flue dust, portland cement	68475-76-3	oral	LD0	>1,848 mg/kg	rat	OECD Guideline 422	ECHA

Acute toxicity of components of the mixture							
Name of substance	CAS No	Exposure route	End-point	Value	Species	Method	Source
flue dust, portland cement	68475-76-3	dermal	LD0	≥2,000 mg/kg	rat	OECD Guideline 402	ECHA
flue dust, portland cement	68475-76-3	inhalation: dust/mist	LC50	>6.04 mg/l/4h	rat	OECD Guideline 436	ECHA

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**

**Skin sensitisation**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Respiratory sensitisation**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Germ cell mutagenicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Carcinogenicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Reproductive toxicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Specific target organ toxicity - single exposure**

May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

## 11.2 Information on other hazards

There is no additional information.

### Endocrine disrupting properties

None of the ingredients are listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

Test data are not available for the complete mixture.

#### Aquatic toxicity (acute) of components of the mixture

Aquatic toxicity (acute) of components of the mixture							
Name of substance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
cement, alumina, chemicals	65997-16-2	LC50	>100 mg/l	Danio rerio	OECD Guideline 203	ECHA	96 h
cement, alumina, chemicals	65997-16-2	EC50	6.4 mg/l	daphnia magna	OECD Guideline 202	ECHA	24 h
cement, alumina, chemicals	65997-16-2	ErC50	3.6 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	72 h
flue dust, portland cement	68475-76-3	ErC50	28.2 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	72 h
flue dust, portland cement	68475-76-3	ErC50	22.4 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	72 h

#### Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

#### Aquatic toxicity (chronic) of components of the mixture

Aquatic toxicity (chronic) of components of the mixture							
Name of substance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
cement, alumina, chemicals	65997-16-2	EC50	>1,000 mg/l	microorganisms	OECD Guideline 209	ECHA	3 h

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<b>Aquatic toxicity (chronic) of components of the mixture</b>							
<b>Name of substance</b>	<b>CAS No</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>	<b>Method</b>	<b>Source</b>	<b>Exposure time</b>
cement, alumina, chemicals	65997-16-2	NOEC	2.6 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	72 h
cement, alumina, chemicals	65997-16-2	LOEC	5.3 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	72 h
cement, alumina, chemicals	65997-16-2	growth (Eb-Cx) 20%	>1,000 mg/l	microorganisms	OECD Guideline 209	ECHA	3 h
flue dust, portland cement	68475-76-3	EL10	68.2 mg/l	daphnia magna	OECD Guideline 211	ECHA	21 d
flue dust, portland cement	68475-76-3	NOEC	100 mg/l	daphnia magna	OECD Guideline 202	ECHA	48 h
flue dust, portland cement	68475-76-3	NOEC	11.1 mg/l	zebra fish (Danio rerio)	OECD Guideline 203	ECHA	96 h

### 12.2 Persistence and degradability

#### Biodegradation

The study does not need to be conducted, the relevant substances in the mixture are inorganic.

#### Persistence

No data available.

### 12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

#### Remarks

Wassergefährdungsklasse, WGK (water hazard class): 2

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

This material and its container must be disposed of as hazardous waste.

**Sewage disposal-relevant information**

Do not empty into drains.

**Waste treatment of containers/packagings**

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions.

**SECTION 14: Transport information**

<b>14.1</b>	<b>UN number or ID number</b>	not assigned
<b>14.2</b>	<b>UN proper shipping name</b>	-
<b>14.3</b>	<b>Transport hazard class(es)</b>	-
<b>14.4</b>	<b>Packing group</b>	-
<b>14.5</b>	<b>Environmental hazards</b>	-
<b>14.6</b>	<b>Special precautions for user</b>	-
<b>14.7</b>	<b>Maritime transport in bulk according to IMO instruments</b>	-

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Relevant provisions of the European Union (EU)****Restrictions according to REACH, Annex XVII**

<b>Dangerous substances with restrictions (REACH, Annex XVII)</b>			
<b>Name of substance</b>	<b>Name acc. to inventory</b>	<b>CAS No</b>	<b>Restriction</b>
flue dust, portland cement	chromium(VI) compounds		R47

**Legend**

- R47
1. Cement and cement-containing mixtures shall not be placed on the market, or used, if they contain, when hydrated, more than 2 mg/kg (0,0002 %) soluble chromium VI of the total dry weight of the cement.
  2. If reducing agents are used, then without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of cement or cement-containing mixtures is visibly, legibly and indelibly marked with information on the packing date, as well as on the storage conditions and the storage period appropriate to maintaining the activity of the reducing agent and to keeping the content of soluble chromium VI below the limit

## Legend

indicated in paragraph 1.

3. By way of derogation, paragraphs 1 and 2 shall not apply to the placing on the market for, and use in, controlled closed and totally automated processes in which cement and cement-containing mixtures are handled solely by machines and in which there is no possibility of contact with the skin.

4. The standard adopted by the European Committee for Standardization (CEN) for testing the water-soluble chromium (VI) content of cement and cement-containing mixtures shall be used as the test method for demonstrating conformity with paragraph 1.

5. Leather articles coming into contact with the skin shall not be placed on the market where they contain chromium VI in concentrations equal to or greater than 3 mg/kg (0,0003 % by weight) of the total dry weight of the leather.

6. Articles containing leather parts coming into contact with the skin shall not be placed on the market where any of those leather parts contains chromium VI in concentrations equal to or greater than 3 mg/kg (0,0003 % by weight) of the total dry weight of that leather part.

7. Paragraphs 5 and 6 shall not apply to the placing on the market of second-hand articles which were in end-use in the Union before 1 May 2015.

## List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

## Seveso Directive

Not assigned.

## Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

None of the ingredients are listed.

## Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

## Regulation on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

## Regulation concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

## Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

**Indication of changes (revised safety data sheet)**

Indication of changes: Section 1, 2, 3, 8, 11,12,15

**Abbreviations and acronyms**

<b>Abbreviations and acronyms</b>	
<b>Abbr.</b>	<b>Descriptions of used abbreviations</b>
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval



<b>Abbreviations and acronyms</b>	
Abbr.	Descriptions of used abbreviations
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LOEC	Lowest Observed Effect Concentration
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### **Key literature references and sources for data**

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

### **Classification procedure**

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in chapter 2 and 3)

List of relevant phrases (code and full text as stated in chapter 2 and 3)	
Code	Text
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

### Responsible for the safety data sheet

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### Disclaimer

This information is based upon the present state of our knowledge.  
This SDS has been compiled and is solely intended for this product.