



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

Version number: 1.0

First version: 2017-07-11

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

### 1.1 Product identifier

Trade name	<u>V15/30, V15/50, V15/80 V1A15/30, V1A15/50 V1/30 HF, V1/60 HF V3/50 VB-P10 VS-P E1SF M10, M10/02, M10/4, M10/12, M10/13 SP20 SP40 SP45 U02, U10, U20, U40, U80, U160 R20/02, R20/05, R20/10, R20/20, R20/40, R20/80 TW10, TW20, TW40, TW05 weiß, TW10 weiß, TW20 weiß, TW40 weiß KA20 KA Schlämme RM20 SM20 CM20 P40, P80 FE20</u>
Registration number (REACH)	not relevant (mixture)
CAS number	not relevant (mixture)

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

Relevant identified uses	Building material Industrial use Professional use Consumer use (private households)
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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: <a href="mailto:Info@pagel.com">Info@pagel.com</a> Website: <a href="http://www.pagel.com">www.pagel.com</a>
e-mail (competent person)	<a href="mailto:schempershofe@pagel.de">schempershofe@pagel.de</a> , <a href="mailto:labor@pagel.de">labor@pagel.de</a>

### 1.4 Emergency telephone number

Poison centre			
Country	Name	Telephone	Telefax

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

Poison centre			
Country	Name	Telephone	Telefax
Germany	Giftinformationszentrum Mainz	+49 (0) 6131 - 19240 (Bera- tung in deutscher oder eng- lischer Sprache)	

As above or next 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 acc. to GHS				
Section	Hazard class	Category	Hazard class and category	Hazard state- ment
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.8R	specific target organ toxicity - single expos- ure (respiratory tract irritation)	3	STOT SE 3	H335

for full text of abbreviations: see SECTION 16

### 2.2 Label elements

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

Signal word            danger

Pictograms

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

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.  
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

## 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 (R43 and/or 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.

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

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 acc. to GHS					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	M-Factors
portland cement	CASNo 65997-15-1  ECNo 266-043-4	15–60	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE3 / 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.

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

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#### 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

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

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## 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.

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

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

Advices on how to contain a spill

take up mechanically

Advices 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.

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

## 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 feedingstuffs.

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	CASNo	Notation	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source
GB	dust		i	WEL		10			EH40/2005
GB	dust		r	WEL		4			EH40/2005
GB	silica, crystalline	14808-60-7	r	WEL		0.1			EH40/2005



V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CASNo	Notation	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source
GB	portland cement	65997-15-1	i	WEL		10			EH40/2005
GB	portland cement	65997-15-1	r	WEL		4			EH40/2005
GB	silica, amorphous	69012-64-2	i	WEL		6			EH40/2005
GB	silica, amorphous	69012-64-2	r	WEL		2.4			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

## 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

#### Hand protection

Material	Material thickness	Breakthrough times of the glove material
NBR: acrylonitrile-butadiene rubber	≥ 0,15 mm	these information are not available

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

#### Appearance

Physical state	solid
Form	powder
Colour	grey - white

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

Odour	odourless
Odour threshold	these information are not available
<b>Other safety parameters</b>	
pH (value)	alkaline (suspension)
Melting point/freezing point	>1,250 °C
Initial boiling point and boiling range	these information are not available
Flash point	not applicable
Evaporation rate	these information are not available
Flammability (solid, gas)	non-combustible
Explosion limits of dust clouds	not determined
Vapour pressure	these information are not available
Density	2.75–3.2 g/cm <sup>3</sup> at 20 °C
Vapour density	these information are not available
Relative density	2.75–3.2 at 20 °C (water = 1)
Solubility(ies)	
Water solubility	not miscible in any proportion
Partition coefficient	
n-octanol/water (log KOW)	these information are not available
Auto-ignition temperature	not relevant (Solid matter)
Relative self-ignition temperature for solids	these information are not available
Decomposition temperature	these information are not available

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

Viscosity

Kinematic viscosity

not relevant  
(solid matter)

Dynamic viscosity

not relevant  
(solid matter)

Explosive properties

not explosive

Oxidising properties

shall not be classified as oxidising

## 9.2 Other information

None

## 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.

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### 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

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### 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.

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

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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.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity (acute)

Test data are not available for the complete mixture.

Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

### 12.2 Persistence and degradability

Biodegradation

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

Persistence

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

#### 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 Other adverse effects

Data are not available.

Endocrine disrupting potential

None of the ingredients are listed.

#### Remarks

Water hazard class - WHC (Wassergefährdungsklasse): 1 (Slightly hazardous to water)

### 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

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

#### Remarks

Please consider the relevant national or regional provisions.

### SECTION 14: Transport information

14.1	UN number	not subject to transport regulations
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	
	Class	-
14.4	Packing group	-
14.5	Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

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

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

**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

none of the ingredients are listed

List of substances subject to authorisation (REACH, Annex XIV)

none of the ingredients are listed

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes



V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

none of the ingredients are listed

Regulation 98/2013/EU on the marketing and use of explosives precursors

none of the ingredients are listed

## 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information

### Abbreviations and acronyms

Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
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)

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
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)
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
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)
ICAO	International Civil Aviation Organization
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
PBT	Persistent, Bioaccumulative and Toxic
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
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
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).

V15/30, V15/50, V15/80 V1A15/30,  
V1A15/50 V1/30 HF, V1/60 HF V3/50  
VB-P10 VS-P E1SF M10, M10/02,  
M10/4, M10/12, M10/13 SP20 SP40  
SP45 U02, U10, U20, U40, U80, U160  
R20/02, R20/05, R20/10, R20/20,  
R20/40, R20/80 TW10, TW20, TW40,  
TW05 weiß, TW10 weiß, TW20  
weiß, TW40 weiß KA20 KA  
Schlämme RM20 SM20 CM20 P40,  
P80 FE20

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.
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.