

Safety Data Sheet

acc. to The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)

Pura light

Version number: 1.0 First version: 2024-06-21

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

1.1 Product identifier

Trade name Pura light

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

Relevant identified uses Mortar

1.3 Details of the supplier of the safety data sheet

redstone GmbH & Co. KG

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Please do not use this e-mail address to ask for the latest safety data sheet. For this purpose contact redstone GmbH & Co. KG.

1.4 Emergency telephone number

Poison centre		
Country	Name	Telephone
United Kingdom	NHS	111

As above or nearest toxicological information centre.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (acc. to GB CLP)

Classification							
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			

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For full text of abbreviations: see SECTION 16

2.2 Label elements

Labelling (acc. to GB 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

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/in-

ternational regulations.

Hazardous ingredients for labelling portland cement

calcium dihydroxide

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of \geq 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

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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	10 - < 25	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335	₹	-
calcium dihydroxide	CAS No 1305-62-0 EC No 215-137-3	5 - < 10	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335		-

Remarks

For full text of H-phrases: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Self-protection of the first aider.

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.

Take off immediately all contaminated clothing.

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

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

Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

Following eye contact

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth. Do not induce vomiting.

Get medical advice/attention if you feel unwell.

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Notes for the doctor

None.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

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

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

Non-combustible.

Keep containers cool with water spray.

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

Wear self-contained breathing apparatus

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.

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.

Chemical protection suit.

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6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

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.

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

Avoid contact with skin and eyes.

Do not breathe dust.

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Removal of dust deposits.

Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room.

Handling of incompatible substances or mixtures

Do not mix with acids.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

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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, contact with air/oxygen

Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

Ventilation requirements

Provision of sufficient ventilation.

Specific designs for storage rooms or vessels

Keep container tightly closed and in a well-ventilated place. Store in a dry place.

Packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Nota- tion	Source
EU	calcium dihydrox- ide	1305-62- 0	IOELV	-	1	-	4	r	2017/164/ EU
GB	dust	-	WEL	-	10	-	-	i	EH40/2005
GB	dust	-	WEL	-	4	-	-	r	EH40/2005
GB	calcium hydrox- ide	1305-62- 0	WEL	-	5	-	-	1	EH40/2005
GB	calcium hydrox- ide	1305-62- 0	WEL	-	1	-	4	r	EH40/2005
GB	portland cement	65997- 15-1	WEL	-	10	-	-	i, dust	EH40/2005
GB	portland cement	65997- 15-1	WEL	-	4	-	-	r, dust	EH40/2005

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Notation

dust as dust

i inhalable fractionr 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)

Human health values

Relevant DNELs of components									
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time			
calcium dihydrox- ide	1305-62-0	DNEL	1 mg/m³	human, inhalat- ory	worker (industry)	chronic - local ef- fects			

Environmental values

Relevant PNECs of components									
Name of substance	CAS No	Endpoint	Threshold level	Environmental com- partment					
calcium dihydroxide	1305-62-0	PNEC	0.49 ^{mg} / _l	freshwater					
calcium dihydroxide	1305-62-0	PNEC	0.32 ^{mg} / _l	marine water					
calcium dihydroxide	1305-62-0	PNEC	3 ^{mg} / _l	sewage treatment plant (STP)					
calcium dihydroxide	1305-62-0	PNEC	1,080 ^{mg} / _{kg}	soil					

8.2 Exposure controls

Appropriate engineering controls

Use local and general ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection. (EN 166)

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Hand protection

Protective gloves

Material	Material thickness	Breakthrough times of the glove material
no information available	no information available	no information available

Wear suitable gloves.

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

Check leak-tightness/impermeability prior to use.

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.

Body protection

Protective clothing for use against solid particulates. (EN 13832, EN 340, EN 14605).

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Particle filter device (DIN EN 143).

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

Decomposition temperature

pH (value)

9.1 Information on basic physical and chemical properties

Physical state solid Colour white Odour odourless Melting point/freezing point not determined **Boiling point or initial boiling point and boiling** not determined range **Flammability** non-combustible Lower and upper explosion limit not applicable (solid) Flash point not applicable **Auto-ignition temperature** not applicable (solid)

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not relevant

>11.4

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Viscosity not relevant

(solid)

Solubility(ies)

Water solubility not miscible in any proportion

Partition coefficient n-octanol/water (log value) not relevant

(inorganic)

Vapour pressure not determined

Density and/or relative density

Density $1.3 \, \mathrm{g/_{cm^3}}$ at 20 °C

Relative vapour density not relevant (solid)

Particle characteristics no data available

9.2 Other information

Information with regard to physical hazard

classes

hazard classes acc. to GHS (physical hazards):

not relevant

Other safety characteristics there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity with water.

Hygroscopic solid.

May be corrosive to metals.

10.2 Chemical stability

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

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

Do not mix with acids.

10.4 Conditions to avoid

Control of dust.

10.5 Incompatible materials

acids

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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 toxicological effects

Classification procedure

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

Classification acc. to GHS

Acute toxicity

Test data are not available for the complete mixture.

Acute toxicity of components

Name of substance	CAS No	Expos- ure route	End- point	Value	Species	Method	Source
calcium dihydroxide	1305-62-0	oral	LD0	>2,000 ^{mg} / _{kg}	rat, fe- male	OECD Guideline 425	ЕСНА
calcium dihydroxide	1305-62-0	dermal	LD0	>2,500 ^{mg} / _{kg}	rabbit	OECD Guideline 402	ЕСНА
calcium dihydroxide	1305-62-0	inhala- tion: 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.

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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

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

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

Aquatic toxicity (acute) of components

Name of sub- stance	CAS No	Endpoint	Expos- ure time	Value	Species	Method	Source
calcium di- hydroxide	1305-62-0	LC50	96 h	50.6 ^{mg} / _l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 201	ЕСНА
calcium di- hydroxide	1305-62-0	LC50	96 h	158 ^{mg} / _l	daphnia magna	OECD Guideline 202	ЕСНА
calcium di- hydroxide	1305-62-0	EC50	48 h	49.1 ^{mg} / _l	daphnia magna	OECD Guideline 202	ECHA

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Name of sub- stance	CAS No	Endpoint	Expos- ure time	Value	Species	Method	Source
calcium di- hydroxide	1305-62-0	ErC50	72 h	184.6 ^{mg} / _l	algae (raphido- celis subcapit- ata)	OECD Guideline 201	ЕСНА

Aquatic toxicity (chronic)

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

Aquatic toxicity (chronic) of components

•		•					
Name of sub- stance	CAS No	Endpoint	Expos- ure time	Value	Species	Method	Source
calcium di- hydroxide	1305-62-0	LC50	14 d	53.1 ^{mg} / _l	Crustaceae (Crangon sp.)	-	ECHA
calcium di- hydroxide	1305-62-0	EC50	3 h	300.4 ^{mg} / _l	activated sludge of a pre- dominantly do- mestic sewage	OECD Guideline 209	ECHA
calcium di- hydroxide	1305-62-0	NOEC	14 d	32 ^{mg} / _l	Crustaceae (Crangon sp.)	-	ECHA
calcium di- hydroxide	1305-62-0	NOEC	72 h	48 ^{mg} / _l	algae (raphido- celis subcapit- ata)	OECD Guideline 201	ЕСНА
calcium di- hydroxide	1305-62-0	LOEC	72 h	80 ^{mg} / _l	algae (raphido- celis subcapit- ata)	OECD Guideline 201	ЕСНА
calcium di- hydroxide	1305-62-0	growth (Eb- Cx) 20%	3 h	229.2 ^{mg} / _l	activated sludge of a pre- dominantly do- mestic sewage	OECD Guideline 209	ECHA
calcium di- hydroxide	1305-62-0	growth (Eb- Cx) 80%	3 h	393.9 ^{mg} / _l	activated sludge of a pre- dominantly do- mestic sewage	OECD Guideline 209	ECHA
calcium di- hydroxide	1305-62-0	growth rate (ErCx) 10%	72 h	79.22 ^{mg} / _l	algae (raphido- celis subcapit- ata)	OECD Guideline 201	ЕСНА
calcium di- hydroxide	1305-62-0	growth rate (ErCx) 20%	72 h	106 ^{mg} / _l	algae (raphido- celis subcapit- ata)	OECD Guideline 201	ЕСНА

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12.2 Persistence and degradability

Biodegradation

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

Persistence

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

12.3 Bioaccumulative potential

n-octanol/water (log KOW) not relevant (inorganic)

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

12.7 Other adverse effects

Data are not available.

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1.

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.

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SECTIO	ON 14: Transport information	
14.1	UN number	not assigned
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Maritime transport in bulk according to IMO instruments	-

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)

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 on the marketing and use of explosives precursors

None of the ingredients are listed.

Regulation on drug precursors

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.

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

None of the ingredients are listed

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Restrictions according to GB REACH, Annex 17

portland cement

Dangerous substances with restrictions (GB REACH, Annex 17) Name of substance Name acc. to inventory CAS No Conditions of restriction

Chromium VI compounds

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.

R47

- 2. If reducing agents are used, then without prejudice to the application of other legislation 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 cementcontaining 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 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 enduse in the Union before 1 May 2015.

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2017/164/EU	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement con- cerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level

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Abbr.	Descriptions of used abbreviations
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)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
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
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
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
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration 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
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin

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Abbr.	Descriptions of used abbreviations
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

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended).

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended).

GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID).

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 section 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.

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