



# CaluClean S75 superontkalker

## Safety Data Sheet

according to Regulation (EU) 2015/830

Reference number: 102047

Issue date: 17-1-2017 Revision date: 1-2-2021 Supersedes version of: 15-7-2019 Version: 3.0

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

#### 1.1. Product identifier

Product form	: Mixture
Product name	: CaluClean S75 superontkalker
UFI	: WN3F-R5NX-9302-U5XY
Product code	: 3011210, 3011125, 3011105
Type of product	: Detergent
Product group	: Cleaning product

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

##### 1.2.1. Relevant identified uses

Main use category	: Professional use, Industrial use
Industrial/Professional use spec	: Wide dispersive use
Use of the substance/mixture	: The information given in this MSDS concerns the product and is given on the assumption mentioned in section 1.1, that the product will be used in the manner and for the purposes indicated by the manufacturer.
Use of the substance/mixture	: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners, air fresheners)
Function or use category	: Cleaning/washing agents and additives

##### 1.2.2. Uses advised against

No additional information available

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

##### Distributor

Carel Lurvink Logistics B.V.  
IJzesteden 11  
7547 TB Enschede - Nederland  
T +31 (0)53-4344343 - F +31 (0)53-4337105  
[info@carellurvink.nl](mailto:info@carellurvink.nl) - [www.carellurvink.nl](http://www.carellurvink.nl)

#### 1.4. Emergency telephone number

Emergency number : +31(0)534344343

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

### SECTION 2: Hazards identification

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

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

Corrosive to metals, Category 1	H290
Acute toxicity (oral), Category 3	H301
Acute toxicity (dermal), Category 2	H310
Acute toxicity (inhalation: gas) Category 3	H331
Skin corrosion/irritation, Category 1	H314
Full text of H statements : see section 16	

##### Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Toxic if swallowed or if inhaled. Fatal in contact with skin. Causes severe skin burns and eye damage.

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### 2.2. Label elements

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

Hazard pictograms (CLP)

:



GHS05



GHS06

Signal word (CLP)

: Danger.

Contains

: hydrofluoric acid; Hydrochloric acid

Hazard statements (CLP)

: H290 - May be corrosive to metals.

H301+H331 - Toxic if swallowed or if inhaled.

H310 - Fatal in contact with skin.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)

: P262 - Do not get in eyes, on skin, or on clothing.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P301+P310 - IF SWALLOWED: Immediately call a doctor.

P303+P361+P533+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a doctor.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

EUH-statements

: EUH210 - Safety data sheet available on request.

Extra phrases

: The effect of contact with diluted HF solutions may occur after some time. A potential delay in the occurrence of clinical effects can be found below. Concentration 20-50% Delay 1-8 hours. Concentration 0-20% Delay to 24 hours. Contact with skin and inhalation of aerosols / vapors during preparation / processing should be avoided.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
hydrofluoric acid substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	(CAS-No.) 7664-39-3 (EC-No.) 231-634-8 (EC Index-No.) 009-003-00-1 (REACH-no) 01-2119458860-33	1 – 5	Met. Corr. 1, H290 Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1A, H314
Hydrochloric acid substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X (REACH-no) 01-2119484862-27	1 – 5	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
hydrofluoric acid	(CAS-No.) 7664-39-3 (EC-No.) 231-634-8 (EC Index-No.) 009-003-00-1 (REACH-no) 01-2119458860-33	( 0,1 ≤C < 1) Eye Irrit. 2, H319 ( 1 ≤C < 7) Skin Corr. 1B, H314 ( 7 ≤C < 100) Skin Corr. 1A, H314
Hydrochloric acid	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X (REACH-no) 01-2119484862-27	( 10 ≤C < 100) STOT SE 3, H335 ( 10 ≤C < 25) Eye Irrit. 2, H319 ( 10 ≤C < 25) Skin Irrit. 2, H315 ( 25 ≤C < 100) Skin Corr. 1B, H314

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.
First-aid measures after inhalation	: Bring victim to fresh air. In case of unconsciousness apply stable sideways and seek medical advice. Artificial respiration with respiratory bag or respiratory device. Calcium Gluconate, 2.5% dissolved in a physique. saline can be given together with oxygen via a nebuliser. Keep the victim under medical supervision for a minimum of 24 hours. Do not give mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Call a physician immediately.
First-aid measures after skin contact	: Rinse immediately with plenty of water. Then rub with Calcium Gluconate Solution or Calcium Gluconate Gel.
First-aid measures after eye contact	: In case of eye contact, rinse immediately with water for 20-30 minutes. 2 drops 0.5% solution of Pentaoaine (registered trademark) or Conjuncaine EDO drop in the eyes. After affect, rinse continuously. Benzalconium chloride solutions that can be used for skin treatment are contra-indicated. Get immediate medical advice/attention.
First-aid measures after ingestion	: Qualified medical care required!. Before dilution allow large amounts of water to drink. Apply suspension of magnesium oxide in water to effect softening. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

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

Danger of cardiac arrhythmias. Medical supervision for at least 48 hours. Systemic effects such as hypocalcemia, cardiac arrhythmia, cramps, renal effects. Inflammation of the respiratory tract, especially on the lungs with edema formation. Poisoning also by resorption in case of burns, if the affected skin area is greater than 50cm<sup>2</sup> or a corresponding inhalation is present. Skin burns may necessitate the presence of affected areas of skin and surrounding skin with a 5% solution of calcium-gluconate (doctor's advice), giving special attention to skin wrinkles and nails. Treatment of the lungs: 2.5% solution of calcium-gluconate in isotonic saline solution with 100% oxygen. Toxic effects on the kidneys may indicate dialysis.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Fire hazard	: Not flammable.
Hazardous decomposition products in case of fire	: Corrosive vapours. Carbon monoxide. Toxic fumes may be released.

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### 5.3. Advice for firefighters

- |                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.   |

## SECTION 6: Accidental release measures

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

- |                  |   |
|------------------|---|
| General measures | : Clean up any spills as soon as possible, using an absorbent material to collect it. |
|------------------|---|

#### 6.1.1. For non-emergency personnel

- |                      |  |
|----------------------|--|
| Protective equipment | : Wear recommended personal protective equipment.                                    |
| Emergency procedures | : Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. |

#### 6.1.2. For emergency responders

- |                      |   |
|----------------------|---|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate area.                                 |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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

- |                         |  |
|-------------------------|--|
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Absorb spilled material with sand or earth. Absorb remaining liquid with sand or inert absorbent and remove to safe place. |
|-------------------------|--|

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- |                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Avoid contact with skin and eyes. Do not breathe vapours, gas, mist, fume, spray, dust. Wear personal protective equipment. |
| Hygiene measures              | : Wash contaminated clothing before reuse.  |

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

- |                              |  |
|------------------------------|--|
| Technical measures           | : Comply with applicable regulations.  |
| Storage conditions           | : Store locked up.   |
| Incompatible products        | : Strong bases.  |
| Storage temperature          | : 10 – 30 °C   |
| Information on mixed storage | : Store separately.  |
| Storage area                 | : Store away from heat. Keep storage area clean. Ensure that there is a suitable ventilation system. |
| Special rules on packaging   | : Store in a closed container. Keep only in original container.                                      |

### 7.3. Specific end use(s)

Carefully comply with the instructions for use.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

###### hydrofluoric acid (7664-39-3)

###### EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Hydrogen fluoride
IOEL TWA	1,5 mg/m <sup>3</sup>
IOEL TWA [ppm]	1,8 ppm
IOEL STEL	2,5 mg/m <sup>3</sup>
IOEL STEL [ppm]	3 ppm

###### United Kingdom - Occupational Exposure Limits

Local name	Hydrogen fluoride
WEL TWA (OEL TWA) [1]	1,5 mg/m <sup>3</sup> (as F)
WEL TWA (OEL TWA) [2]	1,8 ppm (as F)
WEL STEL (OEL STEL)	2,5 mg/m <sup>3</sup> (as F)
WEL STEL (OEL STEL) [ppm]	3 ppm (as F)

###### Hydrochloric acid (7647-01-0)

###### EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Hydrogen chloride
IOEL TWA	8 mg/m <sup>3</sup>
IOEL TWA [ppm]	5 ppm
IOEL STEL	15 mg/m <sup>3</sup>
IOEL STEL [ppm]	10 ppm

###### United Kingdom - Occupational Exposure Limits

Local name	Hydrogen chloride
WEL TWA (OEL TWA) [1]	2 mg/m <sup>3</sup> gas and aerosol mists
WEL TWA (OEL TWA) [2]	1 ppm gas and aerosol mists
WEL STEL (OEL STEL)	8 mg/m <sup>3</sup> gas and aerosol mists
WEL STEL (OEL STEL) [ppm]	5 ppm gas and aerosol mists

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

###### hydrofluoric acid (7664-39-3)

###### DNEL/DMEL (Workers)

Acute - systemic effects, inhalation	2,5 mg/m <sup>3</sup>
Acute - local effects, inhalation	2,5 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	1,5 mg/m <sup>3</sup>
Long-term - systemic effects, inhalation	1,5 mg/m <sup>3</sup>

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DNEL/DMEL (General population)	
Acute - systemic effects, dermal	0,01 mg/kg bodyweight
Acute - systemic effects, inhalation	0,03 mg/m <sup>3</sup>
Acute - local effects, inhalation	1,25 mg/m <sup>3</sup>
Long-term - systemic effects, inhalation	0,03 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,01 mg/kg bodyweight/day
Long-term - local effects, inhalation	1,25 mg/m <sup>3</sup>
PNEC (Water)	
PNEC aqua (freshwater)	0,9 mg/l
PNEC aqua (marine water)	0,9 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,766 mg/kg dwt
PNEC sediment (marine water)	0,766 mg/kg dwt
PNEC (Soil)	
PNEC soil	11 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	51 mg/l

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

Eye protection:			
Safety glasses			
Type	Field of application	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

#### 8.2.2.2. Skin protection

Skin and body protection:	
Chemical resistant apron. Chemical resistant safety shoes	

Hand protection:	
Protective gloves	

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Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	2 (> 30 minutes)	0,4	2 (< 1.5)	EN ISO 374

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Carefully comply with the instructions for use. Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: < 1
Viscosity, kinematic	: < 18,018 mm <sup>2</sup> /s
Viscosity, dynamic	: < 20 mPa·s
Solubility	: completely soluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1,11 g/cm <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

May react violently with alkalis. May react violently with oxidants.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

High temperature.

#### 10.5. Incompatible materials

Strong bases. Metals. Oxidizing agent.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Thermal decomposition generates : Corrosive vapours.

### SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Toxic if swallowed.
Acute toxicity (dermal)	: Fatal in contact with skin.
Acute toxicity (inhalation)	: Toxic if inhaled.

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ATE CLP (oral)	119,048 mg/kg bodyweight
ATE CLP (dermal)	119,048 mg/kg bodyweight
ATE CLP (gases)	2380,952 ppmv/4h

#### hydrofluoric acid (7664-39-3)

LC50 Inhalation - Rat [ppm]	2240 1h
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#### Hydrochloric acid (7647-01-0)

LD50 dermal	> 5010 mg/kg bodyweight
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Skin corrosion/irritation	: Causes severe skin burns. pH: < 1
Serious eye damage/irritation	: Assumed to cause serious eye damage pH: < 1
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

#### Hydrochloric acid (7647-01-0)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

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Viscosity, kinematic	< 18,018 mm <sup>2</sup> /s
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### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### Hydrochloric acid (7647-01-0)

LC50 - Fish [1]	3,25 mg/l
EC50 - Other aquatic organisms [1]	4,92 mg/l waterflea
EC50 - Other aquatic organisms [2]	4,5 mg/l

### 12.2. Persistence and degradability

### CaluClean S75 superontkalker

Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
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### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

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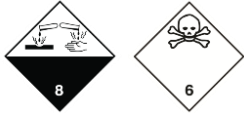
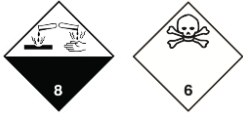



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Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Empty containers can be dumped after cleaning according to local legislation. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 20 01 29* - detergents containing dangerous substances

### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 2922	UN 2922	UN 2922	UN 2922	UN 2922
<b>14.2. UN proper shipping name</b>				
CORROSIVE LIQUID, TOXIC, N.O.S.	CORROSIVE LIQUID, TOXIC, N.O.S.	Corrosive liquid, toxic, n.o.s.	CORROSIVE LIQUID, TOXIC, N.O.S.	CORROSIVE LIQUID, TOXIC, N.O.S.
<b>Transport document description</b>				
UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (), 8 (6.1), II, (E)	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II	UN 2922 Corrosive liquid, toxic, n.o.s., 8 (6.1), II	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II
<b>14.3. Transport hazard class(es)</b>				
8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)
				
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: CT1
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Hazard identification number (Kemler No.)	: 86

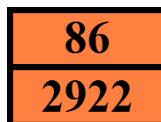
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Orange plates

:



Tunnel restriction code (ADR)

: E

EAC code

: 2X

APP code

: B

### Transport by sea

Special provisions (IMDG)

: 274

Limited quantities (IMDG)

: 1 L

Excepted quantities (IMDG)

: E2

Packing instructions (IMDG)

: P001

IBC packing instructions (IMDG)

: IBC02

Tank instructions (IMDG)

: T7

Tank special provisions (IMDG)

: TP2

EmS-No. (Fire)

: F-A

EmS-No. (Spillage)

: S-B

Stowage category (IMDG)

: B

Stowage and handling (IMDG)

: SW2

Properties and observations (IMDG)

: Causes burns to skin, eyes and mucous membranes. Toxic if swallowed, by skin contact or by inhalation.

### Air transport

PCA Excepted quantities (IATA)

: E2

PCA Limited quantities (IATA)

: Y840

PCA limited quantity max net quantity (IATA)

: 0.5L

PCA packing instructions (IATA)

: 851

PCA max net quantity (IATA)

: 1L

CAO packing instructions (IATA)

: 855

CAO max net quantity (IATA)

: 30L

Special provisions (IATA)

: A3

ERG code (IATA)

: 8P

### Inland waterway transport

Classification code (ADN)

: CT1

Special provisions (ADN)

: 274, 802

Limited quantities (ADN)

: 1 L

Excepted quantities (ADN)

: E2

Carriage permitted (ADN)

: T

Equipment required (ADN)

: PP, EP, TOX, A

Ventilation (ADN)

: VE02

Number of blue cones/lights (ADN)

: 2

### Rail transport

Classification code (RID)

: CT1

Special provisions (RID)

: 274

Limited quantities (RID)

: 1L

Excepted quantities (RID)

: E2

Packing instructions (RID)

: P001, IBC02

Mixed packing provisions (RID)

: MP15

Portable tank and bulk container instructions (RID)

: T7

Portable tank and bulk container special provisions (RID)

: TP2

Tank codes for RID tanks (RID)

: L4BN

Transport category (RID)

: 2

Special provisions for carriage - Loading, unloading and handling (RID)

: CW13, CW28

Colis express (express parcels) (RID)

: CE6

Hazard identification number (RID)

: 86

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

#### Indication of changes:

Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
	SDS Ref.	Added	
1.1	Product code	Modified	
2.2	Precautionary statements (CLP)	Modified	
7.2	Information on mixed storage	Modified	
9.1	Viscosity, dynamic	Modified	

#### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration

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according to Regulation (EU) 2015/830

NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.

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EUH210	Safety data sheet available on request.
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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Met. Corr. 1	H290	Calculation method
Acute Tox. 3 (Oral)	H301	Calculation method
Acute Tox. 2 (Dermal)	H310	Calculation method
Acute Tox. 3 (Inhalation:gas)	H331	Calculation method
Skin Corr. 1	H314	On basis of test data

Safety Data Sheet (SDS), EU

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