

SAFETY DATA SHEET

CalShot

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

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

1.1. Product identifier

Product form : Mixture
Product name : Calmag Corrosion Inhibitor
Product code : CHEM-CALSHOT
Type of product : Blend based on solvents and on corrosion inhibitor
Product group : Blend

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only
Use of the substance/mixture : Corrosion inhibitor

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Calmag (Yorkshire) Ltd
Riverview Buildings
Bradford Road, Riddlesden
Keighley
West Yorkshire
BD20 5LN
Tel: 01535 210320
Fax: 01535 210321
Email: sales@calmagltd.com
Web: www.calmagltd.com

E-mail address of competent person responsible for the SDS : sales@calmagltd.com

1.4. Emergency telephone number

Emergency number : Tel: 01535 210320 (9.00am - 5.00pm Mon-Fri except Public Holidays)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

: Warning

Contains :

: sodium nitrite

Hazard statements (CLP) :

: H302 - Harmful if swallowed.

Precautionary statements (CLP) :

: P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P330 - Rinse mouth.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements :

: EUH210 - Safety data sheet available on request.

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]
sodium nitrite	(CAS-No.) 7632-00-0 (EC-No.) 231-555-9 (EC Index-No.) 007-010-00-4 (REACH-no) 01-2119471836-27-XXXX	3 – 5	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2, H319 Aquatic Acute 1, H400
acyl amido carboxylic acid, alkanol amine salt		< 0.5	Not classified
sodium benzoate	(CAS-No.) 532-32-1 (EC-No.) 208-534-8	< 0.1	Eye Irrit. 2, H319
formaldehyde ...% (Note B)(Note D)	(CAS-No.) 50-00-0 (EC-No.) 200-001-8 (EC Index-No.) 605-001-00-5 (REACH-no) 01-2119488953-20-XXXX	< 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350
propan-2-ol; isopropyl alcohol; isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0 (REACH-no) 01-2119457558-25-XXXX	< 0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44-XXXX	< 0.1	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 STOT SE 1, H370
benzotriazole	(CAS-No.) 95-14-7 (EC-No.) 202-394-1	< 0.1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
yellow dye		< 0.1	Not classified

Specific concentration limits:

Name	Product identifier	Specific concentration limits
formaldehyde ...%	(CAS-No.) 50-00-0 (EC-No.) 200-001-8 (EC Index-No.) 605-001-00-5 (REACH-no) 01-2119488953-20-XXXX	(0.2 ≤C < 100) Skin Sens. 1, H317 (5 ≤C < 100) STOT SE 3, H335 (5 ≤C < 25) Eye Irrit. 2, H319 (5 ≤C < 25) Skin Irrit. 2, H315 (25 ≤C < 100) Skin Corr. 1B, H314
methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44-XXXX	(3 ≤C < 10) STOT SE 2, H371 (10 ≤C < 100) STOT SE 1, H370

Note B : Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Note D : Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

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 poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
----------------------------------	--------------------------------------------------------------------------------------

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

Treat symptomatically.

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

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

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. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

- Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak without risks if possible.
- Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Provide good ventilation in process area to prevent formation of vapour.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)****United Kingdom - Occupational Exposure Limits**

Local name	Propan-2-ol
WEL TWA (mg/m ³)	999 mg/m ³
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m ³)	1250 mg/m ³
WEL STEL (ppm)	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

formaldehyde ...% (50-00-0)**EU - Occupational Exposure Limits**

Local name	Formaldehyde
IOELV TWA (mg/m ³)	0.37 mg/m ³
IOELV TWA (ppm)	0.3 ppm
IOELV STEL (mg/m ³)	0.74 mg/m ³ (BOEL)
IOELV STEL (ppm)	0.6 ppm (BOEL)
Notes	Dermal sensitisation
Regulatory reference	DIRECTIVE (EU) 2019/983 (amending Directive 2004/37/EC)

United Kingdom - Occupational Exposure Limits

Local name	Formaldehyde
WEL TWA (mg/m ³)	2.5 mg/m ³
WEL TWA (ppm)	2 ppm
WEL STEL (mg/m ³)	2.5 mg/m ³
WEL STEL (ppm)	2 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

methanol (67-56-1)**EU - Occupational Exposure Limits**

Local name	Methanol
IOELV TWA (mg/m ³)	260 mg/m ³
IOELV TWA (ppm)	200 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC

United Kingdom - Occupational Exposure Limits

Local name	Methanol
------------	----------

methanol (67-56-1)	
WEL TWA (mg/m ³)	266 mg/m ³
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m ³)	333 mg/m ³
WEL STEL (ppm)	250 ppm
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Safety glasses.

Hand protection:

Wear protective gloves.

Eye protection:

To protect against splashes from pouring. Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: 8.5 (1% solution)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: ~ 100 °C

Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.032 g/cm ³
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Thermal decomposition generates : fume. Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Corrosion Inhibitor WP 1001

ATE CLP (oral)	500 mg/kg bodyweight
----------------	----------------------

sodium nitrite (7632-00-0)

LD50 oral rat	180 mg/kg bodyweight
LD50 dermal	No data/information is available for acute dermal toxicity. Sodium nitrite is not expected to pass the skin.

LC50 inhalation rat (Dust/Mist - mg/l/4h)	Testing concerning acute inhalation toxicity is not meaningful, since sodium nitrite has an extreme high water solubility and leads to oral uptake.
-------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

sodium benzoate (532-32-1)

LD50 oral rat	3450 mg/kg bodyweight
---------------	-----------------------

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

LD50 oral rat	5045 mg/kg
LD50 dermal rabbit	12800 mg/kg
LC50, male, female, Inhalation, rat	> 10000 ppm (6 Hours, (OECD 403 method))

formaldehyde ...% (50-00-0)

LD50 oral rat	100 mg/kg bodyweight
LD50 dermal rabbit	270 mg/kg

benzotriazole (95-14-7)

LD50 oral rat	500 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight

methanol (67-56-1)

LD50 oral	300 mg/kg
LD50 dermal	300 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	128.2 mg/l/4h

Skin corrosion/irritation	: Not classified pH: 8.5 (1% solution)
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified pH: 8.5 (1% solution)
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met

sodium nitrite (7632-00-0)

IARC group	2A - Probably carcinogenic to humans
------------	--------------------------------------

formaldehyde ...% (50-00-0)

IARC group	1 - Carcinogenic to humans
------------	----------------------------

sodium nitrite (7632-00-0)

NOAEL (chronic, oral, animal/male, 2 years)	130 mg/kg bodyweight Rat
NOAEL (chronic, oral, animal/female, 2 years)	150 mg/kg bodyweight Rat

Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met

STOT-single exposure : Not classified
Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified
Additional information : Based on available data, the classification criteria are not met

sodium nitrite (7632-00-0)	
NOEL, male, oral, rat	10 mg/kg bw/day (2 years)

methanol (67-56-1)	
LOAEL, subacute, oral, monkey	2340 mg/kg bw (3 days)

Aspiration hazard : Not classified
Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

sodium nitrite (7632-00-0)	
LC50 fish 1	0.54 – 26.3 mg/l Rainbow trout (<i>Onchorhynchus mykiss</i>)
EC50 Daphnia 1	15.4 mg/l
EC50 other aquatic organisms 1	4.93 mg/l <i>Cherax quadricarinatus</i>
ErC50 (algae)	> 100 mg/l
EC50, daphnia, short term	15.4 mg/l (48 Hours)
LC50, aquatic invertebrates	4.93 mg/l (96 Hours)
EC50, aquatic algae	> 100 mg/l (72 Hours)
EC50, microorganisms	421 mg/l (48 Hours)
NOEC, fish, Chronic	6.61 mg/l (31 days)
NOEC, daphnia, Chronic	9.86 mg/l (80 days)

sodium benzoate (532-32-1)	
LC50 fish 1	484 mg/l Fathead minnow (<i>Pimephales promelas</i>)
EC50 Daphnia 1	> 100 mg/l

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LC50 fish 1	9640 mg/l Fathead minnow (<i>Pimephales promelas</i>)
EC50 72h algae (1)	> 1000 mg/l (<i>Desmodesmus subspicatus</i>)
EC50, daphnia, short term	9714 mg/l (24 Hours, (OECD 202 method))

EC5, microorganisms, <i>Pseudomonas putida</i>	1050 mg/l (16 Hours)
------------------------------------------------	----------------------

formaldehyde ...% (50-00-0)

LC50 fish 1	6.18 mg/l striped bass (<i>Morone saxatilis</i>)
EC50 Daphnia 1	5.8 mg/l
EC50 72h algae (1)	3.48 mg/l

benzotriazole (95-14-7)

LC50 fish 1	180 mg/l Zebrafish (<i>Danio rerio</i>)
EC50 Daphnia 1	107 mg/l
ErC50 (algae)	75 mg/l
NOEC chronic crustacea	0.97 mg/l
NOEC chronic algae	1.18 mg/l

methanol (67-56-1)

LC50 fish 1	15400 mg/l <i>Lepomis macrochirus</i> (Bluegill)
LC50 fish 2	> 100 mg/l <i>Pimephales promelas</i> (Fat-head Minnow)
EC50 Daphnia 1	> 10000 mg/l
EC50 other aquatic organisms 1	2500 mg/l <i>Crangon Crangon</i> (Common sand shrimp)
EC50 96h algae (1)	22000 mg/l <i>Selenastrum capricornutum</i>
EC50 96h algae (2)	16.912 mg/l Marinewater algae <i>Ulva pertusa</i>
NOEC chronic fish	15800 mg/l <i>Oryzias latipes</i> (Red killifish)
IC50, microorganisms, acute	20000 mg/l (15 Hours)
IC50, microorganisms, acute	> 1000 mg/l (3 Hours)

12.2. Persistence and degradability**Corrosion Inhibitor**

Persistence and degradability	Not established.
-------------------------------	------------------

sodium nitrite (7632-00-0)

Persistence and degradability	Not established.
-------------------------------	------------------

sodium benzoate (532-32-1)

Persistence and degradability	Not established.
-------------------------------	------------------

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

formaldehyde ...% (50-00-0)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

methanol (67-56-1)

Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	0.6 – 1.12 g O ₂ /g substance

Chemical oxygen demand (COD)	1.42 g O ₂ /g substance
ThOD	1.5 g O ₂ /g substance
BOD (% of ThOD)	0.8 % ThOD
Biodegradation	95 % 20 days

12.3. Bioaccumulative potential

Corrosion Inhibitor

Bioaccumulative potential	Not established.
---------------------------	------------------

sodium nitrite (7632-00-0)

Bioaccumulative potential	Not established.
---------------------------	------------------

sodium benzoate (532-32-1)

Partition coefficient n-octanol/water (Log Pow)	-2.27
Bioaccumulative potential	Not established.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Partition coefficient n-octanol/water (Log Pow)	0.05
Bioaccumulative potential	No bioaccumulation.

formaldehyde ...% (50-00-0)

Partition coefficient n-octanol/water (Log Pow)	0.35
Bioaccumulative potential	No bioaccumulation.

methanol (67-56-1)

BCF fish 1	< 10 Leuciscus idus (Golden orfe)
Partition coefficient n-octanol/water (Log Pow)	-0.74
Bioaccumulative potential	Low. Not expected to bioaccumulate due to the low log Kow (log Kow < 4).

12.4. Mobility in soil

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Surface tension	22.7 mN/m
Ecology - soil	Very mobile. Soluble material/quickly disperses in water.

methanol (67-56-1)

Surface tension	22.6 mN/m (20 °C)
Ecology - soil	Product adsorbs onto the soil.

12.5. Results of PBT and vPvB assessment

Component

sodium nitrite (7632-00-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
----------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
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**
No data available
- Transport by sea**
No data available
- Air transport**
No data available
- Inland waterway transport**
No data available
- Rail transport**
No data available

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

Not applicable

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 chemical safety assessment has been carried out

SECTION 16: Other information**Abbreviations and acronyms:**

ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
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 : None.

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 1B	Carcinogenicity, Category 1B

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Ox. Sol. 3	Oxidising Solids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H370	Causes damage to organs.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

SDS EU (REACH Annex II)

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.