HG Rust Remover

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.
Issue date: 29/04/2024 Version: 1.0

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

1.1. Product identifier

Product form	:	Mixture
Product name	:	HG Rust Remover
Product code	:	469 ART
Type of product	:	Detergent
Product group	:	Trade product

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

1.2.1. Relevant identified uses

Intended for general public

Main use category	:	Consumer use
Function or use category	:	Metal polish/tarnish remover

1.2.2. Uses advised against

Restrictions on use	:	All other uses not recommended above

1.3. Details of the supplier of the safety data sheet

Manufacturer
HG International B.V.
P.J. Oudweg 41
NL– 1314 CJ Almere
The Netherlands
T +31 (0)36 54 94 700
safety@hg.eu - www.hg.eu

1.4. Emergency telephone number

Emergency number	:	+31 (0)36 54 94 777 Only for medical personnel Mon-Fri 09:00 AM - 05:00 PM (CEST)

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP (SI 2019:720 as amended)

Corrosive to metals, Category 1	H290
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1, Sub-Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. May cause respiratory irritation. Causes severe skin burns and eye damage. Causes serious eye damage.

2.2. Label elements

Labelling according to GB CLP (SI 2019:720 as amended)

Hazard pictograms (GB CLP) :

GHS05 GHS07

Signal word (GB CLP) : Danger

Contains : Isotridecanol, ethoxylated; citric acid; Phosphoric acid

Hazard statements (GB CLP) : H290 - May be corrosive to metals.
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.

Precautionary statements (GB CLP) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P234 - Keep only in original packaging.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, eye protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.
P501 - Dispose of contents and container to an approved waste disposal plant.

Child-resistant fastening : Applicable

Tactile warning : Applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII
This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with UK REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
Phosphoric acid	CAS-No.: 7664-38-2 EC-No.: 231-633-2 REACH-no: 01-2119485924-24	≥25 - 30	Acute Tox. 4 (Oral), H302 (ATE=301 mg/kg bodyweight) Skin Corr. 1B, H314
citric acid	CAS-No.: 77-92-9 EC-No.: 201-069-1 UK Index-No.: 607-750-00-3 REACH-no: 01-2119457026-42	≥ 15 – < 25	STOT SE 3, H335 Eye Irrit. 2, H319

Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
propan-2-ol; isopropyl alcohol; isopropanol	CAS-No.: 67-63-0 EC-No.: 200-661-7 UK Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	≥ 2 – < 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Isotridecanol, ethoxylated	CAS-No.: 69011-36-5 EC-No.: 500-241-6	≥ 1 – < 2	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Dam. 1, H318

Specific concentration limits:		
Name	**Product identifier**	**Specific concentration limits (%)**
Isotridecanol, ethoxylated	CAS-No.: 69011-36-5 EC-No.: 500-241-6	(1 ≤ C < 10) Eye Irrit. 2, H319 (100 ≤ C < 100) Eye Dam. 1, H318

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation : May cause respiratory irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Intense heat may cause container to burst.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide. Phosphorus oxides.

5.3. Advice for firefighters

Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : 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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe vapours, mist.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe mist, vapours. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Incompatible materials : Alkalis.

Storage temperature : 0 – 30 °C

Heat and ignition sources : Keep away from heat and direct sunlight.

Special rules on packaging : Keep only in original container. Opened containers must be carefully closed and kept upright to avoid leakage.

Packaging materials : Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
United Kingdom - Occupational Exposure Limits	
Local name	Propan-2-ol
WEL TWA (OEL TWA)	999 mg/m³
	400 ppm
WEL STEL (OEL STEL)	1250 mg/m³
	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Phosphoric acid (7664-38-2)	
United Kingdom - Occupational Exposure Limits	
Local name	Orthophosphoric acid
WEL TWA (OEL TWA)	1 mg/m³
WEL STEL (OEL STEL)	2 mg/m³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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

No additional information available

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 and safety showers 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 - Report preview:
Safety glasses. Wear protective gloves. Protective clothing. Wear foot protection.

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection - Report preview:
Safety glasses with side shields

Eye protection			
Type	**Field of application**	**Characteristics**	**Standard**
Safety glasses with side shields	Normal use conditions		EN 166
Chemical goggles or face shield	Droplet		EN 166

8.2.2.2. Skin protection

Skin and body protection - Report preview:
Long sleeved protective clothing. Chemical resistant safety shoes

Skin and body protection	
Type	**Standard**
Long sleeved protective clothing	
Chemical resistant safety shoes	EN ISO 20345
Use chemically protective clothing	EN 14605

Hand protection - Report preview:
Protective gloves

Hand protection					
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**	**Standard**
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,35		EN ISO 374
Disposable gloves	Butyl rubber	6 (> 480 minutes)	0,5		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection - Report preview:
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Respiratory protection			
Device	**Filter type**	**Condition**	**Standard**
Half-mask	FFFP2	Mist formation, Vapour protection	EN 149

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Yellow.
Appearance	:	Liquid.
Odour	:	Characteristic.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Explosive limits	:	Not available
Flash point	:	64 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	< 1
pH solution concentration	:	100 %
Viscosity, kinematic	:	Not available
Solubility	:	Not available

Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	1.358 – 1.368
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Boiling point	82 °C
Flash point	12 °C Remarks on result: 'other:'
Auto-ignition temperature	12 °C
Vapour pressure	4400 Pa 25°C

Isotridecanol, ethoxylated (69011-36-5)	
Boiling point	> 280 °C Atm. press.: 101 kPa Decomposition: 'no' Remarks on result: 'other:'
Flash point	138 °C Atm. press.: 1013 hPa Remarks on result: 'other:'

citric acid (77-92-9)	
Boiling point	decomposes
Flash point	100 °C Source: Akron Univ
Auto-ignition temperature	1010 °C Source: ICSC
Vapour pressure	0.00000221 Pa Temp.: 25 °C Remarks on result: 'other:'

Phosphoric acid (7664-38-2)	
Boiling point	296.5 °C
Vapour pressure	< 0.001 Pa 25°C

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

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

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Attacks many metals releasing highly flammable gas (hydrogen) which generates fire or explosion hazards. Alkalis.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified (Conclusive but not sufficient for classification)
Acute toxicity (inhalation) : Not classified (Conclusive but not sufficient for classification)

HG Rust Remover	
ATE GB CLP (oral)	992.299 mg/kg bodyweight

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LD50 oral rat	5840 mg/kg Source: ECHA
LD50 oral	4396 mg/kg bodyweight
LD50 dermal rabbit	12800 mg/kg Source: ECHA
LC50 Inhalation - Rat (Dust/Mist)	46600 mg/l
ATE GB CLP (oral)	4396 mg/kg bodyweight
ATE GB CLP (dermal)	12800 mg/kg bodyweight
ATE GB CLP (dust, mist)	46600 mg/l/4h

Isotridecanol, ethoxylated (69011-36-5)	
LD50 oral	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	≈ 5960 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:
ATE GB CLP (oral)	500 mg/kg bodyweight

citric acid (77-92-9)	
LD50 oral	5400 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 4500 - 6400
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE GB CLP (oral)	5400 mg/kg bodyweight

Phosphoric acid (7664-38-2)	
LD50 oral rat	1.25 g/kg
LD50 oral	301 mg/kg
LD50 dermal rabbit	2740 mg/kg Source: ECHA
ATE GB CLP (oral)	301 mg/kg bodyweight
ATE GB CLP (dermal)	2740 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns.
pH: < 1

Serious eye damage/irritation : Causes serious eye damage.
pH: < 1

Respiratory or skin sensitisation : Not classified (Conclusive but not sufficient for classification)
Germ cell mutagenicity : Not classified (Conclusive but not sufficient for classification)
Carcinogenicity : Not classified (Conclusive but not sufficient for classification)
Reproductive toxicity : Not classified (Conclusive but not sufficient for classification)
STOT-single exposure : May cause respiratory irritation.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

citric acid (77-92-9)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified (Conclusive but not sufficient for classification)

Isotridecanol, ethoxylated (69011-36-5)	
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

citric acid (77-92-9)	
LOAEL (oral, rat, 90 days)	8000 mg/kg bodyweight Animal: rat
NOAEL (oral, rat, 90 days)	4000 mg/kg bodyweight Animal: rat

Aspiration hazard : Not classified (Conclusive but not sufficient for classification)

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Viscosity, kinematic	2.658 mm²/s

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

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 (Conclusive but not sufficient for classification)
Hazardous to the aquatic environment, long–term (chronic) : Not classified (Conclusive but not sufficient for classification)

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas

Isotridecanol, ethoxylated (69011-36-5)	
LC50 - Fish [1]	> 1 mg/l
EC50 - Crustacea [1]	1.5 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 1 mg/l waterflea
EC50 96h - Algae [1]	11.5 mg/l Source: EPISUITE v4.1

citric acid (77-92-9)	
LC50 - Fish [1]	440 mg/l
EC50 - Crustacea [1]	1535 mg/l
EC50 - Other aquatic organisms [1]	85 mg/l waterflea
EC50 96h - Algae [1]	1690000 mg/l Source: Ecological Structure Activity Relationships

Phosphoric acid (7664-38-2)	
LC50 - Fish [1]	75.1 mg/l Source: ECHA
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

HG Rust Remover	
Persistence and degradability	Rapidly degradable

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Persistence and degradability	Rapidly degradable

Isotridecanol, ethoxylated (69011-36-5)	
Persistence and degradability	Rapidly degradable

citric acid (77-92-9)	
Persistence and degradability	Rapidly degradable
Biochemical oxygen demand (BOD)	0.526 g O_2/g substance
Chemical oxygen demand (COD)	0.728 g O_2/g substance
Biodegradation	97 %

Phosphoric acid (7664-38-2)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

HG Rust Remover	
Bioaccumulative potential	No bioaccumulation expected.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0.05

citric acid (77-92-9)	
Partition coefficient n-octanol/water (Log Pow)	-1.67

Phosphoric acid (7664-38-2)	
Partition coefficient n-octanol/water (Log Pow)	-0.77

12.4. Mobility in soil

HG Rust Remover	
Ecology - soil	Expected to be highly mobile in soil.

Isotridecanol, ethoxylated (69011-36-5)	
Mobility in soil	111.3 Source: EPISUITE v4.1

12.5. Results of PBT and vPvB assessment

HG Rust Remover
This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII
This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII

12.6. Other adverse effects

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.
Ecological information : Recycling is preferred to disposal or incineration. Avoid release to the environment.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3265	UN 3265	UN 3265	UN 3265	UN 3265
14.2. UN proper shipping name				
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	Corrosive liquid, acidic, organic, n.o.s.	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Transport document description				
UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, III, (E)	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, III	UN 3265 Corrosive liquid, acidic, organic, n.o.s., 8, III	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, III	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, III
14.3. Transport hazard class(es)				
8	8	8	8	8
				

ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Dangerous for the environment	Dangerous for the environment: Dangerous for the environment Marine pollutant: No	Dangerous for the environment: Dangerous for the environment	Dangerous for the environment: Dangerous for the environment	Dangerous for the environment: Dangerous for the environment
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	:	C3
Special provisions (ADR)	:	274
Limited quantities (ADR)	:	0
Excepted quantities (ADR)	:	E0
Packing instructions (ADR)	:	P001
Mixed packing provisions (ADR)	:	MP8, MP17
Portable tank and bulk container instructions (ADR)	:	T14
Portable tank and bulk container special provisions (ADR)	:	TP2, TP27
Tank code (ADR)	:	L10BH
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	1
Special provisions for carriage - Operation (ADR)	:	S20
Hazard identification number (Kemler No.)	:	88
Orange plates	:	
Tunnel restriction code (ADR)	:	E
EAC code	:	2X
APP code	:	B

Transport by sea

Special provisions (IMDG)	:	274
Limited quantities (IMDG)	:	0
Excepted quantities (IMDG)	:	E0
Packing instructions (IMDG)	:	P001
Tank instructions (IMDG)	:	T14
Tank special provisions (IMDG)	:	TP2, TP27
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-B
Stowage category (IMDG)	:	B
Stowage and handling (IMDG)	:	SW2
Segregation (IMDG)	:	SGG1, SG36, SG49
Properties and observations (IMDG)	:	Causes burns to skin, eyes and mucous membranes.

Air transport

PCA Excepted quantities (IATA)	:	E0
PCA Limited quantities (IATA)	:	Forbidden
PCA limited quantity max net quantity (IATA)	:	Forbidden
PCA packing instructions (IATA)	:	850
PCA max net quantity (IATA)	:	0.5L
CAO packing instructions (IATA)	:	854
CAO max net quantity (IATA)	:	2.5L
Special provisions (IATA)	:	A3, A803
ERG code (IATA)	:	8L

Inland waterway transport

Classification code (ADN)	:	C3
Special provisions (ADN)	:	274
Limited quantities (ADN)	:	0
Excepted quantities (ADN)	:	E0
Carriage permitted (ADN)	:	T
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	0

Rail transport

Classification code (RID)	:	C3
Special provisions (RID)	:	274
Limited quantities (RID)	:	0
Excepted quantities (RID)	:	E0
Packing instructions (RID)	:	P001
Mixed packing provisions (RID)	:	MP8, MP17
Portable tank and bulk container instructions (RID)	:	T14
Portable tank and bulk container special provisions (RID)	:	TP2, TP27
Tank codes for RID tanks (RID)	:	L10BH
Special provisions for RID tanks (RID)	:	TU38, TE22
Transport category (RID)	:	1
Hazard identification number (RID)	:	88

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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Detergent Regulation (648/2004)

Labelling of contents

Component	%
non-ionic surfactants	<5%

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. United Kingdom

UK REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

UK REACH Candidate List (SVHC)

Contains no substance(s) listed on the UK REACH Candidate List

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
Met. Corr. 1	Corrosive to metals, Category 1
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

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.