

# **FLYLEAF**

# Article: 8485 Roti®-Prep RNA MINI

# for molecular biology

Date of compilation: 2023-01-27

## Composition/information on ingredients

### **Bill of materials**

Name of substance	Identifier	Num ber of piece s	Classification acc. to GHS	Pictograms	Page
Lysis Buffer LSR		1	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412	The Contract of the Contract o	5 - 22
Washing Buffer WSA		1	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412		23 - 42
Washing Solution WSL		1			43 - 54
Water	CAS No 7732-18-5 EC No 231-791-2	1			55 – 65

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### 2 Hazards identification

### 2.1 Label elements

Signal word Danger

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

### **Pictograms**

Danger.



### Hazard statement(s)

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled

H314 Causes severe skin burns and eye damage H412 Harmful to aquatic life with long lasting effects

### **Precautionary statements**

### **Precautionary statements - prevention**

P280 Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary statements - response**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower]

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P312 Call a POISON CENTRE/doctor if you feel unwell

### **Supplemental hazard information**

EUH032 Contact with acids liberates very toxic gas

**Hazardous ingredients for labelling:** Guanidine thiocyanate,

### 3 Transport information

### 3.1 UN number or ID number

ADR/RID/ADN UN 3316 IMDG-Code UN 3316 ICAO-TI UN 3316

3.2 UN proper shipping name

ADR/RID/ADN CHEMICAL KIT
IMDG-Code CHEMICAL KIT
ICAO-TI Chemical kit

3.3 Transport hazard class(es)

ADR/RID/ADN 9
IMDG-Code 9
ICAO-TI 9

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3.4 Packing group

ADR/RID/ADN II
IMDG-Code II
ICAO-TI II

**3.5 Environmental hazards** not assigned

3.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

3.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### 3.8 Information for each of the UN Model Regulations

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

Proper shipping name CHEMICAL KIT

Particulars in the transport document UN3316, CHEMICAL KIT, 9, II, (E)

Classification code M11
Special provisions (SP) 251, 340
Excepted quantities (EQ) -> SP340
Limited quantities (LQ) -> SP251

Transport category (TC) 2
Tunnel restriction code (TRC) E
Emergency Action Code 2Z

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name CHEMICAL KIT

Particulars in the shipper's declaration UN3316, CHEMICAL KIT, 9, II

Marine pollutant Danger label(s) 9



Special provisions (SP) 251, 340

Excepted quantities (EQ) -> SP340

Limited quantities (LQ) -> SP251

EmS F-A, S-P

Stowage category A

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Chemical kit

Particulars in the shipper's declaration UN3316, Chemical kit, 9, II

Danger label(s) 9



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Special provisions (SP) A44, A163

Excepted quantities (EQ) E0
Limited quantities (LQ) 1 kg

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

### Lysis Buffer LSR

article number: Version: 3.0 en

Replaces version of: 2022-01-11

Version: (2)



date of compilation: 2015-11-02 Revision: 2023-01-27

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

### **Product identifier** 1.1

Identification of the substance

**Lysis Buffer LSR** 

Article number

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for squirting or spraying. Do not use

for products which come into direct contact with the skin. Do not use for products which come into contact with foodstuffs. Do not use for private

purposes (household).

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

Carl Roth GmbH + Co KG Schoemperlenstr, 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment

sheet:

e-mail (competent person):

sicherheit@carlroth.de

### 1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

### **SECTION 2: Hazards identification**

### Classification of the substance or mixture

### Classification acc. to GHS

Section	n Hazard class		Hazard class and category	Hazard statement
3.10	3.10 Acute toxicity (oral) 3.1D Acute toxicity (dermal) 3.1I Acute toxicity (inhal.) 3.2 Skin corrosion/irritation		Acute Tox. 4	H302
3.1D			Acute Tox. 4	H312
3.1I			Acute Tox. 4	H332
3.2			Skin Corr. 1B	H314

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### **Lysis Buffer LSR**

### article number:

Section	Hazard class		Hazard class and category	Hazard statement
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
4.1C	Hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

### **Supplemental hazard information**

Code	Supplemental hazard information
EUH032	contact with acids liberates very toxic gas

For full text of abbreviations: see SECTION 16

### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Spillage and fire water can cause pollution of watercourses.

### 2.2 Label elements

### Labelling

Signal word Danger

### **Pictograms**

GHS05, GHS07



### **Hazard statements**

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled Causes severe skin burns and eye damage H412 Harmful to aquatic life with long lasting effects

### **Precautionary statements**

### **Precautionary statements - prevention**

P261 Avoid breathing mist/vapours P273 Avoid release to the environment

### **Precautionary statements - response**

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 Call a POISON CENTRE/doctor if you feel unwell

### **Supplemental hazard information**

EUH032 Contact with acids liberates very toxic gas.

**Hazardous ingredients for labelling:**Guanidine thiocyanate

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

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### **Lysis Buffer LSR**

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### 2.3 Other hazards

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

### **Description of the mixture**

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Guanidine thiocyanate	CAS No 593-84-0 EC No 209-812-1 Index No 615-004-00-3	25 – 50	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412 EUH032		A(a) GHS-HC

### Notes

A(a): The name of substance is a general description. It is required that the correct name is stated on the label GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

Name of sub- stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Guanidine thiocyanate	CAS No 593-84-0	-	-	593 <sup>mg</sup> / <sub>kg</sub> 1.100 <sup>mg</sup> / <sub>kg</sub> 1,5 <sup>mg</sup> / <sub>l</sub> /4h	oral dermal inhalation: dust/
	EC No 209-812-1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mist

For full text of abbreviations: see SECTION 16

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures



### **General notes**

Take off immediately all contaminated clothing.

### Following inhalation

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

### Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

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



### **Lysis Buffer LSR**

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### Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor.

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

Corrosion, Vomiting, Risk of blindness, Gastric perforation, Risk of serious damage to eyes

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

none

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media



### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

### Unsuitable extinguishing media

water jet

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

Ingredients of the mixture combustible. The product itself does not burn.

### **Hazardous combustion products**

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulphur oxides (SOx), Hydrogen cyanide (HCN, prussic acid)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

### **SECTION 6: Accidental release measures**

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



### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

### 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

Covering of drains.

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

### **Lysis Buffer LSR**

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### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. 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

Handle and open container with care. Clear contaminated areas thoroughly.

### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Keep container tightly closed.

### **Incompatible substances or mixtures**

Observe hints for combined storage.

### Consideration of other advice:

### **Ventilation requirements**

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### **National limit values**

### Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

### Relevant DNELs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Guanidine thiocy- anate	593-84-0	DNEL	1,092 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Guanidine thiocy- anate	593-84-0	DNEL	3,28 mg/ m³	human, inhalat- ory	worker (industry)	acute - systemic effects
Guanidine thiocy- anate	593-84-0	DNEL	0,31 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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



### **Lysis Buffer LSR**

article number:

### Relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Guanidine thiocy- anate	593-84-0	PNEC	42,4 <sup>µg</sup> / <sub>I</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Guanidine thiocy- anate	593-84-0	PNEC	4,24 <sup>µg</sup> / <sub>I</sub>	aquatic organ- isms	marine water	short-term (single instance)
Guanidine thiocy- anate	593-84-0	PNEC	20 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Guanidine thiocy- anate	593-84-0	PNEC	165 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Guanidine thiocy- anate	593-84-0	PNEC	16,5 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)
Guanidine thiocy- anate	593-84-0	PNEC	8,03 <sup>µg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)

### 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

### **Eye/face protection**





Use safety goggle with side protection. Wear face protection.

### Skin protection





### hand protection

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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

### type of material

NBR (Nitrile rubber)

material thickness

>0,11 mm

### breakthrough times of the glove material

>480 minutes (permeation: level 6)

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

### **Lysis Buffer LSR**

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### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### **Respiratory protection**





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

### **Environmental exposure controls**

Keep away from drains, surface and ground water.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state liquid

Colour colourless

Odour characteristic

Melting point/freezing point not determined

Boiling point or initial boiling point and boiling

range

~100 °C at 1.013 hPa

Flammability non-combustible

Lower and upper explosion limit not determined

Flash point not determined

Auto-ignition temperature not determined

Decomposition temperature not relevant

pH (value) not determined

Kinematic viscosity not determined

Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure not determined

Density and/or relative density

Density 1,145 <sup>g</sup>/<sub>cm³</sub> at 20 °C

Relative vapour density information on this property is not available

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

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### **Lysis Buffer LSR**

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Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics:

Miscibility completely miscible with water

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

Dangerous/dangerous reactions with: Acids

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### Release of toxic materials with

Acids.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Classification acc. to GHS

### **Acute toxicity**

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

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



1,5 <sup>mg</sup>/<sub>I</sub>/4h

### **Lysis Buffer LSR**

article number:

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
inhalation: gas	LC50	4.500 ppmV/4h	monkey		

# Name of substanceCAS NoExposure routeATEGuanidine thiocyanate593-84-0oral593 mg/kgGuanidine thiocyanate593-84-0dermal1.100 mg/kg

inhalation: dust/mist

593-84-0

Acute toxicity of components of the mixture						
	Name of substance	CAS No	Exposure route	Endpoint	Value	Species
	Guanidine thiocyanate	593-84-0	oral	LD50	593 <sup>mg</sup> / <sub>kg</sub>	rat

### Skin corrosion/irritation

Causes severe skin burns and eye damage.

Guanidine thiocyanate

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

### If swallowed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

### • If in eyes

causes burns, Causes serious eye damage, risk of blindness

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

### **Lysis Buffer LSR**

article number:

### If inhaled

Data are not available.

### • If on skin

causes severe burns, causes poorly healing wounds

### • Other information

none

### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

### 11.3 Information on other hazards

There is no additional information.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture									
Name of sub- stance	CAS No	CAS No Endpoint		Species	Exposure time				
Guanidine thiocyanate	593-84-0	LC50	89,1 <sup>mg</sup> / <sub>l</sub>	fish	96 h				
Guanidine thiocyanate	593-84-0	EC50	42,4 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h				
Guanidine thiocyanate	593-84-0	ErC50	130 <sup>mg</sup> /ı	algae	72 h				

Aquatic toxicity (chronic) of components of the mixture					
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Guanidine thiocyanate	593-84-0	EC50	>185 <sup>mg</sup> / <sub>l</sub>	microorganisms	28 d

### 12.2 Persistence and degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Guanidine thiocyanate	593-84-0	DOC removal	46 %	28 d		ECHA
Guanidine thiocyanate	593-84-0	carbon dioxide generation	32 %	28 d		ECHA

### 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture					
Name of substance	CAS No	BCF Log KOW BOD5/COD			
Guanidine thiocyanate	593-84-0	-1,5 (pH value: ≥6,2, 20 °C)			

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

### **Lysis Buffer LSR**

article number:

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### Properties of waste which render it hazardous

**HP 4** irritant - skin irritation and eye damage

**HP 6** acute toxicity

**HP8** corrosive

HP 12 release of an acute toxic gas

**HP 14** ecotoxic

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

### **SECTION 14: Transport information**

### 14.1 UN number or ID number

ADRRID UN 1760 IMDG-Code UN 1760 ICAO-TI UN 1760

### 14.2 UN proper shipping name

ADRRID CORROSIVE LIQUID, N.O.S. IMDG-Code CORROSIVE LIQUID, N.O.S. ICAO-TI Corrosive liquid, n.o.s.

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



### **Lysis Buffer LSR**

### article number:

	Technical name (hazardous ingredients)	Guanidine thiocyanate
14.3	Transport hazard class(es)	
	ADRRID	8
	IMDG-Code	8
	ICAO-TI	8
14.4	Packing group	
	ADRRID	II
	IMDG-Code	II
	ICAO-TI	II
14.5	Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations

### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

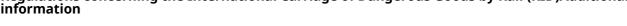
### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

### Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name	CORROSIVE LIQUID, N.O.S.	
Particulars in the transport document	UN1760, CORROSIVE LIQUID, N.O.S., (contains: Guanidine thiocyanate), 8, II, (E)	
Classification code	C9	
Danger label(s)	8	
Special provisions (SP)	274	
Excepted quantities (EQ)	E2	
Limited quantities (LQ)	1 L	
Transport category (TC)	2	
Tunnel restriction code (TRC)	E	
Hazard identification No	80	
Emergency Action Code	2X	
Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information		



Classification code	C9
Danger label(s)	8



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

### **Lysis Buffer LSR**

article number:

Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Hazard identification No	80

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name CORROSIVE LIQUID, N.O.S.

Particulars in the shipper's declaration UN1760, CORROSIVE LIQUID, N.O.S., (contains:

Guanidine thiocyanate), 8, II

Marine pollutant Danger label(s) 8



Special provisions (SP) 274

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

EmS F-A, S-B

Stowage category B

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Corrosive liquid, n.o.s.

Particulars in the shipper's declaration UN1760, Corrosive liquid, n.o.s., (contains: Guan-

idine thiocyanate), 8, II

Danger label(s) 8



Special provisions (SP) A3
Excepted quantities (EQ) E2
Limited quantities (LQ) 0,5 L

### **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

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

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



### **Lysis Buffer LSR**

article number:

### **Deco-Paint Directive**

VOC content	0 % 0 <sup>9</sup> / <sub>I</sub>

### **Industrial Emissions Directive (IED)**

VOC content	0 %
VOC content (Water content was discounted)	0 <sup>g</sup> / <sub>l</sub>

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### **Water Framework Directive (WFD)**

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)

### Restrictions according to GB REACH, Annex 17

none of the ingredients are listed

### Dangerous substances with restrictions (GB REACH, Annex 17)

Name of substance	Name acc. to inventory	CAS No	No
Lysis Buffer LSR	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3

### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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



article number:



### **National inventories**

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed as "ACTIVE"

Legend

AIIC
CSCL-ENCS
List of Existing and New Chemical Substances (CSCL-ENCS)
DSL
Domestic Substances List (DSL)
ECSI
ECSI
ECSU
Inventory of Existing Chemical Substances Produced or Imported in China
INSQ
National Inventory of Chemical Substances
KECI
Korea Existing Chemicals Inventory
NZIOC
New Zealand Inventory of Chemicals
PICCS
Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.
TCSI
Taiwan Chemical Substance
Toxic Substance Inventory
Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

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

### **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes

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### **Lysis Buffer LSR**

article number:

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2	contains: Guanidine thiocyanate		yes
14.8		Regulations concerning the International Car- riage of Dangerous Goods by Rail (RID)Addition- al information	yes
14.8		Classification code: C9	yes
14.8		Danger label(s): 8	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8		Special provisions (SP): 274	yes
14.8		Excepted quantities (EQ): E2	yes
14.8		Limited quantities (LQ): 1 L	yes
14.8		Transport category (TC): 2	yes
14.8		Hazard identification No: 80	yes
15.1	Restrictions according to REACH, Annex XVII		yes
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes
15.1	List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list: None of the ingredients are listed.		yes
15.1	VOC content: 0 %	VOC content: 0 % 0 <sup>g</sup> / <sub>1</sub>	yes
15.1		VOC content (Water content was discounted): 0 <sup>g</sup> / <sub>l</sub>	yes
15.1		National regulations(GB)	yes
15.1		Restrictions according to GB REACH, Annex 17: none of the ingredients are listed	yes
15.1		Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes

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

### **Lysis Buffer LSR**

article number:

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### **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations				
Acute Tox.	Acute toxicity				
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)				
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard				
ATE	Acute Toxicity Estimate				
BCF	Bioconcentration factor				
BOD	Biochemical Oxygen Demand				
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)				
COD	Chemical oxygen demand				
DGR	Dangerous Goods Regulations (see IATA/DGR)				
DNEL	Derived No-Effect Level				
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)				
EINECS	European Inventory of Existing Commercial Chemical Substances				
ELINCS	European List of Notified Chemical Substances				
EmS	Emergency Schedule				
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 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)				
ICAO	International Civil Aviation Organization				
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air				
IMDG	International Maritime Dangerous Goods Code				
IMDG-Code	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				
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval				
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval				
log KOW	n-Octanol/water				
NLP	No-Longer Polymer				

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### **Lysis Buffer LSR**

### article number:

Abbr.	Descriptions of used abbreviations
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
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
Skin Irrit.	Irritant to skin
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

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. The classification is based on tested mixture. 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
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

### 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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### **Washing Buffer WSA**

article number: Version: **4.0 en** 

Replaces version of: 2022-01-11

Version: (3)



date of compilation: 2015-10-29

Revision: 2023-01-27

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

### **Product identifier** 1.1

Identification of the substance

**Washing Buffer WSA** 

Article number

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for squirting or spraying. Do not use

for products which come into direct contact with the skin. Do not use for products which come into contact with foodstuffs. Do not use for private

purposes (household).

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

Carl Roth GmbH + Co KG Schoemperlenstr, 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment

sheet:

e-mail (competent person):

sicherheit@carlroth.de

### 1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

### **SECTION 2: Hazards identification**

### Classification of the substance or mixture

### Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.1D	Acute toxicity (dermal)	4	Acute Tox. 4	H312
3.1I	Acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.2	Skin corrosion/irritation	1B	Skin Corr. 1B	H314

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### Washing Buffer WSA

### article number:

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
4.1C	Hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

### **Supplemental hazard information**

Code	Supplemental hazard information
EUH032	contact with acids liberates very toxic gas

For full text of abbreviations: see SECTION 16

### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Spillage and fire water can cause pollution of watercourses.

### 2.2 Label elements

### Labelling

Signal word Danger

### **Pictograms**

GHS05, GHS07



### **Hazard statements**

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled Causes severe skin burns and eye damage H412 Harmful to aquatic life with long lasting effects

### **Precautionary statements**

### **Precautionary statements - prevention**

P280 Wear protective gloves/eye protection

### **Precautionary statements - response**

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell

P302+P352 IF ON SKIN: Wash with plenty of water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

### **Supplemental hazard information**

EUH032 Contact with acids liberates very toxic gas.

**Hazardous ingredients for labelling:**Guanidine thiocyanate

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

### **Washing Buffer WSA**

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### 2.3 Other hazards

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

### **Description of the mixture**

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Guanidine thiocyanate	CAS No 593-84-0 EC No 209-812-1 Index No 615-004-00-3	25 – 50	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412 EUH032		A(a) GHS-HC

### Notes

A(a): The name of substance is a general description. It is required that the correct name is stated on the label GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

Name of sub- stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Guanidine thiocyanate	CAS No 593-84-0 EC No 209-812-1	-	-	593 <sup>mg</sup> / <sub>kg</sub> 1.100 <sup>mg</sup> / <sub>kg</sub> 1,5 <sup>mg</sup> / <sub>l</sub> /4h	oral dermal inhalation: dust/ mist

For full text of abbreviations: see SECTION 16

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures



### **General notes**

Take off immediately all contaminated clothing. Self-protection of the first aider.

### Following inhalation

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

### Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

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### **Washing Buffer WSA**

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### Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor.

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

Corrosion, Vomiting, Risk of blindness, Gastric perforation, Risk of serious damage to eyes

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

none

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media



### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

### Unsuitable extinguishing media

water jet

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

Ingredients of the mixture combustible. The product itself does not burn.

### **Hazardous combustion products**

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulphur oxides (SOx), Hydrogen cyanide (HCN, prussic acid)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

### **SECTION 6: Accidental release measures**

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



### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

### 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

Covering of drains.

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### **Washing Buffer WSA**

article number:

### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. 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

Handle and open container with care. Clear contaminated areas thoroughly.

### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Keep container tightly closed.

### **Incompatible substances or mixtures**

Observe hints for combined storage.

### **Consideration of other advice:**

### **Ventilation requirements**

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### **National limit values**

### **Occupational exposure limit values (Workplace Exposure Limits)**

This information is not available.

### Relevant DNELs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Guanidine thiocy- anate	593-84-0	DNEL	1,092 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Guanidine thiocy- anate	593-84-0	DNEL	3,28 mg/ m³	human, inhalat- ory	worker (industry)	acute - systemic effects
Guanidine thiocy- anate	593-84-0	DNEL	0,31 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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### Washing Buffer WSA

article number:

### Relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Guanidine thiocy- anate	593-84-0	PNEC	42,4 <sup>µg</sup> / <sub>I</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Guanidine thiocy- anate	593-84-0	PNEC	4,24 <sup>µg</sup> / <sub>I</sub>	aquatic organ- isms	marine water	short-term (single instance)
Guanidine thiocy- anate	593-84-0	PNEC	20 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Guanidine thiocy- anate	593-84-0	PNEC	165 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Guanidine thiocy- anate	593-84-0	PNEC	16,5 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)
Guanidine thiocy- anate	593-84-0	PNEC	8,03 <sup>µg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)

### 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

### **Eye/face protection**





Use safety goggle with side protection. Wear face protection.

### Skin protection





### hand protection

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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

### type of material

NBR (Nitrile rubber)

material thickness

>0,11 mm

### breakthrough times of the glove material

>480 minutes (permeation: level 6)

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### **Washing Buffer WSA**

### article number:

### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### **Respiratory protection**





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

100 °C

### **Environmental exposure controls**

Keep away from drains, surface and ground water.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state liquid

Colour colourless

Odour characteristic

Melting point/freezing point not determined

Boiling point or initial boiling point and boiling

range

Flammability non-combustible

Lower and upper explosion limit not determined

Flash point not determined

Auto-ignition temperature not determined

Decomposition temperature not relevant

pH (value) not determined

Kinematic viscosity not determined

Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure 23 hPa at 20 °C

Density and/or relative density

Density  $1,08 \, {}^{9}/_{cm^3}$  at 20  ${}^{\circ}$ C

Relative vapour density information on this property is not available

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

### **Washing Buffer WSA**

article number:

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics:

Miscibility completely miscible with water

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

### Dangerous/dangerous reactions with: Acids

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### Release of toxic materials with

Acids.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Classification acc. to GHS

### **Acute toxicity**

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

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### **Washing Buffer WSA**

article number:

# Acute toxicity estimate (ATE) of components of the mixture Name of substance CAS No Exposure route

Name of substance	CAS No	Exposure route	ATE
Guanidine thiocyanate	593-84-0	oral	593 <sup>mg</sup> / <sub>kg</sub>
Guanidine thiocyanate	593-84-0	dermal	1.100 <sup>mg</sup> / <sub>kg</sub>
Guanidine thiocyanate	593-84-0	inhalation: dust/mist	1,5 <sup>mg</sup> / <sub>l</sub> /4h

### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Guanidine thiocyanate	593-84-0	oral	LD50	593 <sup>mg</sup> / <sub>kg</sub>	rat

### Skin corrosion/irritation

Causes severe skin burns and eye damage.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

### If swallowed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

### • If in eyes

causes burns, Causes serious eye damage, risk of blindness

### • If inhaled

Data are not available.

### • If on skin

causes severe burns, causes poorly healing wounds

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# ROTH

### **Washing Buffer WSA**

article number:

Other information

none

### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

### 11.3 Information on other hazards

There is no additional information.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

### Aquatic toxicity (acute) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Guanidine thiocyanate	593-84-0	LC50	89,1 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Guanidine thiocyanate	593-84-0	EC50	42,4 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Guanidine thiocyanate	593-84-0	ErC50	130 <sup>mg</sup> / <sub>l</sub>	algae	72 h

### Aquatic toxicity (chronic) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Guanidine thiocyanate	593-84-0	EC50	>185 <sup>mg</sup> / <sub>l</sub>	microorganisms	28 d

### 12.2 Persistence and degradability

### Degradability of components of the mixture

Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Guanidine thiocyanate	593-84-0	DOC removal	46 %	28 d		ECHA
Guanidine thiocyanate	593-84-0	carbon dioxide generation	32 %	28 d		ECHA

### 12.3 Bioaccumulative potential

Data are not available.

### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Guanidine thiocyanate	593-84-0	-1,5 (pH value: ≥6,2, 20 °C)		

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

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

### **Washing Buffer WSA**

article number:

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### Properties of waste which render it hazardous

**HP 4** irritant - skin irritation and eye damage

HP 6 acute toxicity

**HP8** corrosive

**HP 12** release of an acute toxic gas

HP 14 ecotoxic

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## **SECTION 14: Transport information**

Technical name (hazardous ingredients)

### 14.1 UN number or ID number

ADRRID UN 1760 IMDG-Code UN 1760 ICAO-TI UN 1760

### 14.2 UN proper shipping name

ADRRID CORROSIVE LIQUID, N.O.S. IMDG-Code CORROSIVE LIQUID, N.O.S. ICAO-TI Corrosive liquid, n.o.s.

### 14.3 Transport hazard class(es)

ADRRID 8

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Guanidine thiocyanate

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

# ©

### **Washing Buffer WSA**

artic	le	nu	m	ber:	

IMDG-Code 8
ICAO-TI 8

14.4 Packing group

ADRRID II
IMDG-Code II
ICAO-TI II

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dan-

gerous goods regulations

### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

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

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

# Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name CORROSIVE LIQUID, N.O.S.

Particulars in the transport document UN1760, CORROSIVE LIQUID, N.O.S., (contains:

Guanidine thiocyanate), 8, II, (E)

Classification code C9
Danger label(s) 8



Special provisions (SP) 274

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

Transport category (TC) 2

Tunnel restriction code (TRC) E

Hazard identification No 80

Emergency Action Code 2X

# Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information

Classification code C9

Danger label(s) 8



Special provisions (SP) 274

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

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

# ®

### **Washing Buffer WSA**

article number:

Transport category (TC) 2
Hazard identification No 80

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name CORROSIVE LIQUID, N.O.S.

Particulars in the shipper's declaration UN1760, CORROSIVE LIQUID, N.O.S., (contains:

Guanidine thiocyanate), 8, II

Marine pollutant Danger label(s) 8



Special provisions (SP) 274

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

EmS F-A, S-B

Stowage category B

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Corrosive liquid, n.o.s.

Particulars in the shipper's declaration UN1760, Corrosive liquid, n.o.s., (contains: Guan-

idine thiocyanate), 8, II

Danger label(s) 8



Special provisions (SP) A3

Excepted quantities (EQ) E2

Limited quantities (LQ) 0,5 L

### **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**

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

### **Deco-Paint Directive**

0 %	VOC content
3 73	VOC content

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



### Washing Buffer WSA

article number:

### **Industrial Emissions Directive (IED)**

VOC content	0 %
-------------	-----

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### Water Framework Directive (WFD)

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)

### Restrictions according to GB REACH, Annex 17

none of the ingredients are listed

### Dangerous substances with restrictions (GB REACH, Annex 17)

Name of substance	Name acc. to inventory	CAS No	No
Washing Buffer WSA	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3

### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### **National inventories**

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed

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## **Washing Buffer WSA**

article number:

Country	Inventory	Status	
KR	KECI	not all ingredients are listed	
MX	INSQ	not all ingredients are listed	
NZ	NZIoC	all ingredients are listed	
PH	PICCS	all ingredients are listed	
TW	TCSI	all ingredients are listed	
US	TSCA	all ingredients are listed as "ACTIVE"	

Legend

Australian Inventory of Industrial Chemicals
List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances AIIC CSCL-ENCS DSL ECSI IECSC

INSQ KECI Korea Existing Chemicals Inventory
NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory

Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

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

## **SECTION 16: Other information**

## Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Former entry (text/value)  Actual entry (text/value)	
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.1		Supplemental hazard information: change in the listing (table)	yes
2.1	The most important adverse physicochemical, human health and environmental effects: Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Spillage and fire water can cause pollution of watercourses.		yes
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes

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## **Washing Buffer WSA**

article number:

Section	tion Former entry (text/value) Actual entry (text/value)		Safety- relev- ant	
2.2	contains: Guanidine thiocyanate		yes	
2.3	Other hazards: There is no additional information.	Other hazards	yes	
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes	
14.1	UN number: 1760	UN number or ID number	yes	
14.1		ADRRID: UN 1760	yes	
14.1		IMDG-Code: UN 1760	yes	
14.1		ICAO-TI: UN 1760	yes	
14.2	UN proper shipping name: CORROSIVE LIQUID, N.O.S.	UN proper shipping name	yes	
14.2		ADRRID: CORROSIVE LIQUID, N.O.S.	yes	
14.2		IMDG-Code: CORROSIVE LIQUID, N.O.S.	yes	
14.2		ICAO-TI: Corrosive liquid, n.o.s.	yes	
14.3	Transport hazard class(es): class 8 hazard - corrosive substances	Transport hazard class(es)	yes	
14.3	Class: 8 (corrosive substances)		yes	
14.3		ADRRID: 8	yes	
14.3		IMDG-Code: 8	yes	
14.3		ICAO-TI:	yes	
14.4	Packing group: II (substance presenting medium danger)	Packing group	yes	
14.4		ADRRID: II	yes	
14.4		IMDG-Code: II	yes	
14.4		ICAO-TI: II	yes	
14.5	Environmental hazards: none (non-environmentally hazardous acc. to the dangerous goods regulations)	Environmental hazards: non-environmentally hazardous acc. to the dan- gerous goods regulations	yes	
14.8	UN number: 1760		yes	

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



## **Washing Buffer WSA**

article number:

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant	
14.8	Class: 8		yes	
14.8	Packing group: II		yes	
14.8	Emergency Action Code: 2X		yes	
14.8		Emergency Action Code: 2X	yes	
14.8		Regulations concerning the International Car- riage of Dangerous Goods by Rail (RID)Addition- al information	yes	
14.8		Classification code: C9	yes	
14.8		Danger label(s): 8	yes	
14.8		Danger label(s): change in the listing (table)	yes	
14.8		Special provisions (SP): 274	yes	
14.8		Excepted quantities (EQ): E2	yes	
14.8		Limited quantities (LQ): 1 L	yes	
14.8		Transport category (TC): 2	yes	
14.8		Hazard identification No: 80	yes	
14.8	UN number: 1760		yes	
14.8	Class: 8		yes	
14.8	Packing group: II		yes	
14.8	UN number: 1760		yes	
14.8	Class: 8		yes	
14.8	Packing group: II		yes	
14.8		Danger label(s): change in the listing (table)	yes	
14.8		Danger label(s): change in the listing (table)	yes	
15.1	Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC):     None of the ingredients are listed.		yes	

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



## **Washing Buffer WSA**

article number:

Section	Former entry (text/value)  Actual entry (text/value)		Safety- relev- ant
15.1	• Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS):  None of the ingredients are listed.		yes
15.1	Regulation 850/2004/EC on persistent organic pollutants (POP):     None of the ingredients are listed.		yes
15.1	• Restrictions according to REACH, Annex XVII		yes
15.1		Restrictions according to REACH, Annex XVII: change in the listing (table)	yes
15.1	Restrictions according to REACH, Title VIII:     None.		yes
15.1	Directive 75/324/EEC relating to aerosol dispensers		yes
15.1	Filling batch		yes
15.1		Deco-Paint Directive	yes
15.1		VOC content: 0 %	yes
15.1		Industrial Emissions Directive (IED)	yes
15.1		VOC content: 0 %	yes
15.1		Regulation on the marketing and use of explosives precursors: none of the ingredients are listed	yes
15.1		Regulation on substances that deplete the ozone layer (ODS): none of the ingredients are listed	yes
15.1		Regulation concerning the export and import of hazardous chemicals (PIC): none of the ingredients are listed	yes
15.1		Regulation on persistent organic pollutants (POP): none of the ingredients are listed	yes
15.1		National regulations(GB)	yes
15.1		Restrictions according to GB REACH, Annex 17: none of the ingredients are listed	yes
15.1		Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)	yes
15.1	Deco-Paint Directive (2004/42/EC)	Other information: Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	yes
15.1	VOC content: 0 %		yes
15.1	Regulation 111/2005/EC laying down rules for the monitoring of trade between the Com- munity and third countries in drug precursors: none of the ingredients are listed		yes

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



## **Washing Buffer WSA**

article number:

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
15.1	National inventories		yes
15.1		National inventories: change in the listing (table)	yes
15.1		National inventories	yes
15.1		National inventories: change in the listing (table)	yes

## **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations		
Acute Tox.	Acute toxicity		
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)		
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BOD	Biochemical Oxygen Demand		
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)		
COD	Chemical oxygen demand		
DGR	Dangerous Goods Regulations (see IATA/DGR)		
DNEL	Derived No-Effect Level		
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 ident fier of substances commercially available within the EU (European Union)		
EINECS	European Inventory of Existing Commercial Chemical Substances		
ELINCS	European List of Notified Chemical Substances		
EmS	Emergency Schedule		
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 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)		
ICAO	International Civil Aviation Organization		
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air		

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

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## Washing Buffer WSA

article number:

Abbr.	Descriptions of used abbreviations	
IMDG	International Maritime Dangerous Goods Code	
IMDG-Code	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	
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval	
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval	
log KOW	n-Octanol/water	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
Skin Corr.	Corrosive to skin	
Skin Irrit.	Irritant to skin	
VOC	Volatile Organic Compounds	
vPvB	Very Persistent and very Bioaccumulative	

## Key literature references and sources for data

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. The classification is based on tested mixture. 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	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H332	Harmful if inhaled.	
H412	Harmful to aquatic life with long lasting effects.	

## **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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acc. to Regulation (EC) No. 1907/2006 (REACH)

## **Washing Solution WSL**

article number: Version: **3.0 en** 

Replaces version of: 2021-12-22

Version: (2)

date of compilation: 2015-10-27 Revision: 2023-01-27

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

#### **Product identifier** 1.1

Identification of the substance **Washing Solution WSL** 

Article number

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes

(household).

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

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 Telefax: +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment

sheet:

e-mail (competent person): sicherheit@carlroth.de

#### 1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification acc. to GHS

This mixture does not meet the criteria for classification.

#### 2.2 **Label elements**

### Labelling

not required

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



## **Washing Solution WSL**

article number:

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

not relevant (mixture)

#### 3.2 Mixtures

## **Description of the mixture**

This product does not meet the criteria for classification in any hazard class according to GHS

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures



#### **General notes**

No special measures are necessary.

## Following inhalation

Provide fresh air.

## Following skin contact

Rinse skin with water/shower.

## Following eye contact

Rinse cautiously with water for several minutes.

## Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date.

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

none

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media



## Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

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

## **Washing Solution WSL**

article number:

## Unsuitable extinguishing media

water jet

## 5.2 Special hazards arising from the substance or mixture

Non-combustible.

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures



## For non-emergency personnel

No special measures are necessary.

## 6.2 Environmental precautions

Keep away from drains, surface and ground water.

## 6.3 Methods and material for containment and cleaning up

## Advice on how to contain a spill

Covering of drains.

## Other information relating to spills and releases

Place in appropriate containers for disposal.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. 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

No special measures are necessary.

## Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

## **Incompatible substances or mixtures**

Observe hints for combined storage.

## Consideration of other advice:

## Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

## 7.3 Specific end use(s)

No information available.

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

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## **Washing Solution WSL**

article number:

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

**National limit values** 

**Occupational exposure limit values (Workplace Exposure Limits)** 

This information is not available.

## 8.2 Exposure controls

Individual protection measures (personal protective equipment)

## **Eye/face protection**





Use safety goggle with side protection.

## Skin protection





## hand protection

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

## type of material

NBR (Nitrile rubber)

## material thickness

>0,11 mm

## breakthrough times of the glove material

>480 minutes (permeation: level 6)

## • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

## **Respiratory protection**





Respiratory protection necessary at: Aerosol or mist formation. Usually no personal respirative protection necessary.

## **Environmental exposure controls**

Keep away from drains, surface and ground water.

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



## **Washing Solution WSL**

article number:

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical state liquid

Colour colourless
Odour odourless

Melting point/freezing point not determined

Boiling point or initial boiling point and boiling ~100 °C

range

Flammability non-combustible
Lower and upper explosion limit not determined

Flash point not determined
Auto-ignition temperature not determined
Decomposition temperature not relevant

pH (value) not determined
Kinematic viscosity not determined

Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient

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

Vapour pressure 23 hPa at 20 °C

Density and/or relative density

Density  $\sim 1 \, \rm {}^g/_{cm^3}$  at 20  $^{\circ}$ C

Relative vapour density information on this property is not available

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard classes acc. to GHS classes: (physical hazards): not relevant

Other safety characteristics:

Miscibility completely miscible with water

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

## **Washing Solution WSL**

article number:

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

This material is not reactive under normal ambient conditions.

## 10.2 Chemical stability

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

## 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

## 10.5 Incompatible materials

There is no additional information.

## 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

## **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to GHS

This mixture does not meet the criteria for classification.

#### **Acute toxicity**

Shall not be classified as acutely toxic.

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

## Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

## Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

## Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

## Carcinogenicity

Shall not be classified as carcinogenic.

## **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

## Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

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

## **Washing Solution WSL**

article number:

## Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

## **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

## Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

Data are not available.

## • If in eyes

Data are not available.

#### If inhaled

Data are not available.

#### • If on skin

Data are not available.

#### Other information

Health effects are not known.

## 11.2 Endocrine disrupting properties

None of the ingredients are listed.

## 11.3 Information on other hazards

There is no additional information.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

## 12.2 Persistence and degradability

Data are not available.

## 12.3 Bioaccumulative potential

Data are not available.

## 12.4 Mobility in soil

Data are not available.

## 12.5 Results of PBT and vPvB assessment

Data are not available.

## 12.6 Endocrine disrupting properties

None of the ingredients are listed.

## 12.7 Other adverse effects

Data are not available.

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

# ROTH

## **Washing Solution WSL**

article number:

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

## Sewage disposal-relevant information

Do not empty into drains.

## 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## **SECTION 14: Transport information**

14.1 UN number or ID number not	subject to transport regulations
---------------------------------	----------------------------------

**14.2 UN proper shipping name** not assigned

**14.3 Transport hazard class(es)** none

**14.4 Packing group** not assigned

**14.5** Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

## 14.6 Special precautions for user

There is no additional information.

## 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

## 14.8 Information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information** Not subject to ICAO-IATA.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

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



## **Washing Solution WSL**

article number:

#### **Seveso Directive**

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

#### **Deco-Paint Directive**

0 9/1	VOC content	0 % 0 <sup>9</sup> / <sub>I</sub>
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## **Industrial Emissions Directive (IED)**

VOC content	0 %
VOC content (Water content was discounted)	0 <sup>g</sup> / <sub>l</sub>

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

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

## Restrictions according to GB REACH, Annex 17

none of the ingredients are listed

## Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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

## **Washing Solution WSL**

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#### **National inventories**

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed as "ACTIVE"

Legend

AIIC Australian Inventory of Industrial Chemicals
CICR Chemical Inventory and Control Regulation
CSCL-ENCS
DSL Domestic Substances List (DSL)
ECSI EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC Inventory of Existing Chemical Substances Produced or Imported in China INSQ Inventory of Chemical Substances
INVENTOR I

**TSCA Toxic Substance Control Act** 

#### 15.2 Chemical Safety Assessment

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

## **SECTION 16: Other information**

## Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1	Classification according to Regulation (EC) No 1272/2008 (CLP): This mixture does not meet the criteria for clas- sification in accordance with Regulation No 1272/2008/EC.	Classification acc. to GHS: This mixture does not meet the criteria for classification.	yes
14.8	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information:  Not subject to ADR, RID and ADN.		yes

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



## **Washing Solution WSL**

article number:

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
15.1	Restrictions according to REACH, Annex XVII: none of the ingredients are listed		yes
15.1	List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list: None of the ingredients are listed.		yes
15.1	VOC content: 0 %	VOC content: 0 % 0 <sup>g</sup> / <sub>l</sub>	yes
15.1		VOC content (Water content was discounted): 0 <sup>9</sup> / <sub>l</sub>	yes
15.1		National regulations(GB)	yes
15.1		List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list: none of the ingredients are listed	yes
15.1		Restrictions according to GB REACH, Annex 17: none of the ingredients are listed	yes
15.1		National inventories: change in the listing (table)	yes

## Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
DGR	Dangerous Goods Regulations (see IATA/DGR)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
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)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

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



## **Washing Solution WSL**

article number:

## Key literature references and sources for data

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. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### **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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#### Water

article number: date of compilation: 2015-10-29
Version: **5.1 en** Revision: 2022-03-24

Replaces version of: 2021-04-19

Version: (5)

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

## 1.1 Product identifier

Identification of the substance Water

Article number

EC number 231-791-2 CAS number 7732-18-5

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

sicherheit@carlroth.de

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes

(household).

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

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment

\_

e-mail (competent person):

sheet:

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 Label elements

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

not required

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### Water

article number:

#### 2.3 Other hazards

## Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Name of substance Water Molecular formula  $H_2O$ 

Molar mass 18,02 g/<sub>mol</sub>
CAS No 7732-18-5
EC No 231-791-2

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures



### **General notes**

No special measures are necessary.

## Following inhalation

No hazard identified.

## Following skin contact

No hazard identified.

## Following eye contact

No hazard identified.

## Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date.

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

none

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#### Water

article number:

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media



## Suitable extinguishing media

The product itself does not burn

## Unsuitable extinguishing media

no restriction

## 5.2 Special hazards arising from the substance or mixture

Non-combustible.

## 5.3 Advice for firefighters

No special fire protection measures are necessary.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures



## For non-emergency personnel

No special measures are necessary.

## **6.2** Environmental precautions

Not required.

## 6.3 Methods and material for containment and cleaning up

## Advice on how to contain a spill

No special measures are necessary.

## Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece).

## Other information relating to spills and releases

Place in appropriate containers for disposal.

## 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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### Water

article number:

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

No special measures are necessary.

## Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

## **Incompatible substances or mixtures**

Observe hints for combined storage.

Consideration of other advice:

## Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

## 7.3 Specific end use(s)

No information available.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

**National limit values** 

## **Occupational exposure limit values (Workplace Exposure Limits)**

This information is not available.

## 8.2 Exposure controls

## Individual protection measures (personal protective equipment)

## **Eye/face protection**





Use protective eyewear to guard against splash of liquids.

## Skin protection





## hand protection

Hand protection is not required.

## **Respiratory protection**





Usually no personal respirative protection necessary.

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#### Water

article number:

## **Environmental exposure controls**

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

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

Physical state

Colour colourless Odour odourless

0°C Melting point/freezing point

Boiling point or initial boiling point and boiling

range

100 °C at 1.013 hPa

**Flammability** non-combustible Lower and upper explosion limit not determined Flash point not determined Auto-ignition temperature not determined Decomposition temperature not relevant 7 (20 °C) pH (value)

not determined Kinematic viscosity

Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient

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

Vapour pressure 23 hPa at 20 °C

Density and/or relative density

1 g/cm3 at 20 °C Density

Relative vapour density information on this property is not available

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

> Information with regard to physical hazard hazard classes acc. to GHS

> classes: (physical hazards): not relevant

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#### Water

article number:

Other safety characteristics:

Miscibility completely miscible with water

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

## 10.2 Chemical stability

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

## 10.3 Possibility of hazardous reactions

Violent reaction with: Alkali metals, Carbide, Alkaline earth metal

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

## 10.5 Incompatible materials

There is no additional information.

## 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

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

## Classification according to GHS (1272/2008/EC, CLP)

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### **Acute toxicity**

Shall not be classified as acutely toxic.

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

## Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

## Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

## Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

## Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

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#### Water

#### article number:

## Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

## Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

Data are not available.

## • If in eyes

Data are not available.

#### If inhaled

Data are not available.

#### • If on skin

Data are not available.

#### Other information

Health effects are not known.

## 11.2 Endocrine disrupting properties

Not listed.

#### 11.3 Information on other hazards

There is no additional information.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

## **Biodegradation**

The methods for determining the biological degradability are not applicable to inorganic substances.

## 12.2 Process of degradability

Data are not available.

## 12.3 Bioaccumulative potential

Data are not available.

## 12.4 Mobility in soil

Data are not available.

## 12.5 Results of PBT and vPvB assessment

Data are not available.

## 12.6 Endocrine disrupting properties

Not listed.

## 12.7 Other adverse effects

Data are not available.

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#### Water

article number:

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

## Sewage disposal-relevant information

Do not empty into drains.

## 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## **SECTION 14: Transport information**

14.1	UN number or ID number	not subject to transport regulations

**14.2 UN proper shipping name** not assigned

**14.3 Transport hazard class(es)** none

**14.4 Packing group** not assigned

**14.5** Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

## 14.6 Special precautions for user

There is no additional information.

## 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

## 14.8 Information for each of the UN Model Regulations

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

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

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Water

article number:

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

not listed

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

Not listed.

#### **Seveso Directive**

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

#### **Deco-Paint Directive**

VOC content	0 % -0 <sup>g</sup> / <sub>l</sub>
-------------	---------------------------------------

## **Industrial Emissions Directive (IED)**

VOC content	0 %
VOC content (Water content was discounted)	-0 <sup>g</sup> / <sub>l</sub>

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

**Water Framework Directive (WFD)** 

not listed

Regulation on the marketing and use of explosives precursors

not listed

**Regulation on drug precursors** 

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

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## Water

article number:

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### **National inventories**

Country	Inventory	Status
AU	AICS	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

#### Legend

AICS CSCL-ENCS DSL ECSI IECSC

Australian Inventory of Chemical Substances
List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances

Korea Existing Chemicals Inventory New Zealand Inventory of Chemicals Philippine Inventory of Chemicals and Chemical Substances (PICCS) **PICCS** 

Taiwan Chemical Substance Inventory

TCSI TSCA Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

## **Indication of changes (revised safety data sheet)**

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2	Signal word: not required		yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.	yes

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## Water

article number:

## **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)	
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an ident fier of substances commercially available within the EU (European Union)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)	
SVHC	Substance of Very High Concern	
VOC	Volatile Organic Compounds	
vPvB	Very Persistent and very Bioaccumulative	

## Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

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).

## **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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