

**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 1 of 14

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Rost &amp; Lignin EX

UFI: U440-F0WA-N008-KQQN

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

Cleaning agent, acidic

**Uses advised against**

Any non-intended use.

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Company name:	Schaich Chemie und Bautenschutz GmbH	
Street:	Ficht 8	
Place:	D-94107 Untergriesbach	
Telephone:	+49(0)8593 93 96 207	Telefax: +49(0)8593 93 96 206
e-mail:	info@schaich-chemie.de	
Internet:	www.schaich-chemie.de	
Responsible Department:	+49 (0)8593 9396207 (8:00-16:00)	

**Supplier**

Company name:	Stein & Co. GmbH
Street:	Wirtschaftspark Straße 3/9
Place:	A-4482 Ennsdorf

**1.4. Emergency telephone number:** +49 (0)8593 9396207 (8:00-13:00)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Met. Corr. 1; H290  
 Acute Tox. 4; H302  
 Skin Corr. 1B; H314  
 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

phosphoric acid; orthophosphoric acid  
 glycolic acid

**Signal word:** Danger**Pictograms:****Hazard statements**

H290	May be corrosive to metals.
H302	Harmful if swallowed.

**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 2 of 14

H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3. Other hazards**

For information or further instructions, see also section 11 or 12.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

**Chemical characterization**  
 in aqueous solution

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
7664-38-2	phosphoric acid; orthophosphoric acid			25 - < 30 %
	231-633-2	015-011-00-6	01-2119485924-24	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1B; H290 H302 H314			
79-14-1	glycolic acid			7 - < 10 %
	201-180-5		01-2119485579-17	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1; H332 H314 H318 EUH071			
64-18-6	Formic acid ...%			0.1 - < 0.2 %
	200-579-1	607-001-00-0	01-2119491174-37	
	Flam. Liq. 3, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1A; H226 H331 H302 H314 EUH071			

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
7664-38-2	231-633-2	phosphoric acid; orthophosphoric acid	25 - < 30 %
	oral: LD50 = 2600 mg/kg Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25		
79-14-1	201-180-5	glycolic acid	7 - < 10 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = (3,6) mg/l (dusts or mists); oral: LD50 = 2040 mg/kg		
64-18-6	200-579-1	Formic acid ...%	0.1 - < 0.2 %
	inhalation: LC50 = 7,85 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 730 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 10 - < 90 Skin Irrit. 2; H315: >= 2 - < 10 Eye Irrit. 2; H319: >= 2 - < 10		

**Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

**SECTION 4: First aid measures**

# Safety Data Sheet

according to UK REACH Regulation

## Rost & Lignin EX

Revision date: 14.03.2022

Product code:

Page 3 of 14

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician. In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiluson spray, Pulmicort-dosage-spray. (Auxiluson and Pulmicort are registered trademarks).

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

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

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

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Sand. Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

#### Unsuitable extinguishing media

High power water jet

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

Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide Phosphorus oxides

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

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

#### General advice

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

#### For non-emergency personnel

Wear personal protection equipment (refer to section 8).

#### For emergency responders

No special measures are necessary.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil.

**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 4 of 14

**6.3. Methods and material for containment and cleaning up****For containment**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Clean contaminated objects and areas thoroughly observing environmental regulations.

**Other information**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.  
Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

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

Wear suitable protective clothing. ( See section 8. )  
Conditions to avoid: aerosol or mist formation  
Avoid contact with skin, eyes and clothes.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

When using do not eat, drink or smoke.

**Further information on handling**

General protection and hygiene measures: See section 8.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place. Store locked up.  
Unsuitable container/equipment material: Metal

**Hints on joint storage**

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Radioactive substances. Infectious substances.

**Further information on storage conditions**

Protect against: UV-radiation/sunlight., Heat, Humidity

**7.3. Specific end use(s)**

See section 1.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
64-18-6	Formic acid	5	9.6		TWA (8 h)	WEL
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

**DNEL/DMEL values**

**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 5 of 14

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
79-14-1	glycolic acid		
Worker DNEL, long-term	inhalation	systemic	10,56 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	9,2 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	1,53 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	9,2 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	57,69 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	2,6 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	2,3 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	2,3 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	28,85 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,75 mg/kg bw/day
64-18-6	Formic acid ...%		
Worker DNEL, acute	inhalation	local	19 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	19 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	9,5 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	systemic	9,5 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	9,5 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	9,5 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	3 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	systemic	3 mg/m <sup>3</sup>

**PNEC values**

CAS No	Substance	
Environmental compartment	Value	
79-14-1	glycolic acid	
Freshwater	0,031 mg/l	
Freshwater (intermittent releases)	0,312 mg/l	
Marine water	0,003 mg/l	
Freshwater sediment	0,115 mg/kg	
Marine sediment	0,011 mg/kg	
Secondary poisoning	16,66 mg/kg	
Micro-organisms in sewage treatment plants (STP)	7 mg/l	
Soil	0,007 mg/kg	
64-18-6	Formic acid ...%	
Freshwater	2 mg/l	
Freshwater (intermittent releases)	1 mg/l	
Marine water	0,2 mg/l	
Freshwater sediment	13,4 mg/kg	
Marine sediment	1,34 mg/kg	
Micro-organisms in sewage treatment plants (STP)	7,2 mg/l	

**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 6 of 14

Soil	1,5 mg/kg
------	-----------

**8.2. Exposure controls****Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Suitable eye protection: Tightly sealed safety glasses. BS/EN 166

**Hand protection**

Wear suitable gloves. BS EN 374

Gloves with long cuffs

Suitable material:

Butyl rubber. (0,5 mm) (Breakthrough time  $\geq$  8h)

FKM (fluororubber). (0,4 mm) (Breakthrough time  $\geq$  8h)

CR (polychloroprenes, Chloroprene rubber). (0,5 mm) (Breakthrough time  $\geq$  2h)

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

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.

**Skin protection**

Protective clothing. Protective apron (acid-resistant)

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Exceeding exposure limit values

Insufficient ventilation

Generation/formation of aerosols

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: EP-2/3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Environmental exposure controls**

This material and its container must be disposed of in a safe way.

The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	red
Odour:	stinging

**Changes in the physical state**

Melting point/freezing point:	not determined
-------------------------------	----------------

**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 7 of 14

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

Sublimation point: No information available.

Softening point: No information available.

Pour point: not determined

Flash point: not determined

**Flammability**

Solid/liquid: No information available.

Gas: No information available.

**Explosive properties**

none

Lower explosion limits: not determined

Upper explosion limits: not determined

Auto-ignition temperature: 520 °C

**Self-ignition temperature**

Solid: No information available.

Gas: No information available.

Decomposition temperature: not determined

pH-Value: 3,5

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Flow time: not determined

Water solubility: very soluble

**Solubility in other solvents**

No information available.

Partition coefficient n-octanol/water: No information available.

Vapour pressure:  
(at 20 °C) 23 hPaVapour pressure:  
(at 50 °C) No information available.Density (at 20 °C): 1,081 g/cm<sup>3</sup>

Bulk density: No information available.

Relative vapour density: not determined

**9.2. Other information****Information with regard to physical hazard classes**

Sustaining combustion: No data available

Oxidizing properties  
none**Other safety characteristics**

Solvent separation test: No information available.

Solvent content: No information available.

Solid content: not determined

Evaporation rate: No information available.

**Further Information**

No information available.

**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 8 of 14

**SECTION 10: Stability and reactivity****10.1. Reactivity**

May be corrosive to metals.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

Violent reaction with: alkali

**10.4. Conditions to avoid**

Protect against direct sunlight.

Keep away from heat.

**10.5. Incompatible materials**

Materials to avoid: Substances which form flammable gases when in contact with water. Organic peroxides. Inflammatory substances. Alkali metals. Oxidizing agents. alkali.

**10.6. Hazardous decomposition products**Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide Phosphorus oxides**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

Harmful if swallowed.

**ATEmix calculated**

ATE (oral) 1696,7 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7664-38-2	phosphoric acid; orthophosphoric acid				
	oral	LD50 2600 mg/kg	Rat	ECHA Dossier	
79-14-1	glycolic acid				
	oral	LD50 2040 mg/kg	Rat	Study report (1998)	EPA OPP 81-1
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) dust/mist	LC50 (3,6) mg/l	Rat.,male. , OECD 403	ECHA Dossier	
64-18-6	Formic acid ...%				
	oral	LD50 730 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	inhalation (4 h) vapour	LC50 7,85 mg/l	Rat	ECHA Dossier	
	inhalation dust/mist	ATE 0,5 mg/l			

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

Causes serious eye damage.



**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 9 of 14

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

Phosphoric acid ...%; orthophosphoric acid (CAS No. 7664-38-2):

In vitro mutagenicity/genotoxicity: No experimental indications of mutagenicity in-vitro exist.

Reproductive toxicity:

Exposure time: 54d

Species: Rat.

Method: OECD Guideline 422

Result: NOEL = 500 mg/kg bw/day

Literature information: ECHA Dossier

glycolic acid (CAS No. 79-14-1):

In vitro mutagenicity/genotoxicity: No experimental indications of mutagenicity in-vitro exist.

Reproductive toxicity:

Exposure time: 111d

Species: Rat.

Method: OECD Guideline 415

Result: NOEL = 600 mg/kg bw/day

Developmental toxicity/teratogenicity:

Exposure time: 21d

Species: Rat.

Method: OECD Guideline 414

Result: NOEL = 150 mg/kg bw/day

Literature information: ECHA Dossier

**STOT-single exposure**

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

**STOT-repeated exposure**

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

Phosphoric acid ...%; orthophosphoric acid (CAS No. 7664-38-2):

Subchronic oral toxicity:

Exposure time: 90d

Species: Rat.

Method: OECD Guideline 422

Result: NOAEL = 250 mg/kg bw/day

Literature information: ECHA Dossier

glycolic acid (CAS No. 79-14-1):

Subchronic oral toxicity:

Exposure time: 90d

Species: Rat.

Method: OECD Guideline 408

Result: NOEL = 150 mg/kg bw/day (70% sol)

Literature information: ECHA Dossier

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

No information available.

**11.2. Information on other hazards****Endocrine disrupting properties**

No information available.

**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 10 of 14

**SECTION 12: Ecological information****12.1. Toxicity**

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
7664-38-2	phosphoric acid; orthophosphoric acid					
	Acute fish toxicity	LC50 138 mg/l	96 h	Gambusia affinis		
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna	ECHA Dossier	
79-14-1	glycolic acid					
	Acute fish toxicity	LC50 164 mg/l	96 h	Pimephales promelas	REACH Registration Dossier	other: US EPA Pesticide Assessment Guide
	Acute algae toxicity	ErC50 22,5 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 141 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Acute bacteria toxicity	(EC50 > 100 mg/l)	3 h	Activated sludge	REACH Registration Dossier	OECD Guideline 209
64-18-6	Formic acid ...%					
	Acute fish toxicity	LC50 40-100 mg/l	96 h	Leuciscus idus	IUCLID	
	Acute algae toxicity	ErC50 27 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 34,2 mg/l	48 h	Daphnia magna	IUCLID	

**12.2. Persistence and degradability**

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
79-14-1	glycolic acid			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	78%	11	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
64-18-6	Formic acid ...%			
	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	100%	14	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
79-14-1	glycolic acid	< 0,3
64-18-6	Formic acid ...%	-0,54

**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 11 of 14

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

**List of Wastes Code - residues/unused products**

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	UN 1760
<b>14.2. UN proper shipping name:</b>	CORROSIVE LIQUID, N.O.S. (phosphoric acid/glycolic acid)
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	II
Hazard label:	8



Classification code:	C9
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2

**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 12 of 14

Hazard No: 80  
Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1760  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (phosphoric acid/glycolic acid)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Classification code: C9  
Special Provisions: 274  
Limited quantity: 1 L  
Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1760  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (phosphoric acid/glycolic acid)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Marine pollutant: NO  
Special Provisions: 274  
Limited quantity: 1 L  
Excepted quantity: E2  
EmS: F-A, S-B

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 1760  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (phosphoric acid/glycolic acid)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Special Provisions: A3 A803  
Limited quantity Passenger: 0.5 L  
Passenger LQ: Y840  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 851  
IATA-max. quantity - Passenger: 1 L  
IATA-packing instructions - Cargo: 855  
IATA-max. quantity - Cargo: 30 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Safe handling: see section 7

**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 13 of 14

Personal protection equipment: see section 8

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

not relevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC): not determined

2004/42/EC (VOC): not determined

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Additional information**

Safety Data Sheet according to UK-REACH Regulation

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

UK REACH Appendix XVII, No (mixture): 3

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Changes**

Rev. 1,0; Initial release: 05.10.2015

Rev. 2,0; Revision: 22.07.2019

Rev. 3,0; Revision: 14.03.2022

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

**Safety Data Sheet**

according to UK REACH Regulation

**Rost & Lignin EX**

Revision date: 14.03.2022

Product code:

Page 14 of 14

LOAEC: Lowest observed adverse effect concentration  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 NOAEL: No observed adverse effect level  
 NOAEC: No observed adverse effect concentration  
 NLP: No-Longer Polymers  
 N/A: not applicable  
 OECD: Organisation for Economic Co-operation and Development  
 PNEC: predicted no effect concentration  
 PBT: Persistent bioaccumulative toxic  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
 REACH: Registration, Evaluation, Authorisation of Chemicals  
 SVHC: substance of very high concern  
 TRGS: Technische Regeln für Gefahrstoffe  
 UN: United Nations  
 VOC: Volatile Organic Compounds

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Acute Tox. 4; H302	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method

**Relevant H and EUH statements (number and full text)**

H226 Flammable liquid and vapour.  
 H290 May be corrosive to metals.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H318 Causes serious eye damage.  
 H331 Toxic if inhaled.  
 H332 Harmful if inhaled.  
 EUH071 Corrosive to the respiratory tract.

**Further Information**

Classification according to GHS [UK CLP] - Classification procedure:  
 Health hazards: Calculation method.  
 Environmental hazards: Calculation method.  
 Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*