

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

### **Soot & Rust Remover**

Version number: GHS 11.0 Revision: 2023-01-03 Replaces version of: 2022-10-11 (GHS 10)

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

#### 1.1 Product identifier

Trade name Soot & Rust Remover

Product code(s) 12150

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

Relevant identified uses cleaning agent

industrial uses professional uses

Uses advised against Do not use for squirting or spraying in its concen-

trated form. Do not use for products which come into direct contact with the skin. Do not use for

private purposes (household).

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

Unit 3 Ripley Close WF6 1TB Normanton, Wakefield United Kingdom Tel: +44 1924856390

### 1.4 Emergency telephone number

Emergency information service for emergency responders

This number is only for medical emergencies.

Poison centre		
Country	Name	e-Mail
United Kingdom	National Poisons Information Service (NPIS)	director.birmingham.unit@npis.org

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

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
2.16	substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.2	skin corrosion/irritation	1	Skin Corr. 1	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of Hazard- and EU Hazard-statements: 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.

#### 2.2 Label elements

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Labelling

- Signal word danger

- Pictograms

GHS05



- Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

- Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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.

P310 Immediately call a POISON CENTER/doctor. P390 Absorb spillage to prevent material damage.

P501 Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

Sodium hydroxide, 2-aminoethanol, Isotridecan-

ol, ethoxylated (>=2.5 EO)

#### 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	Specific Conc. Limits	M-Factors
2-butoxyethan- ol	CAS No 111-76-2 EC No 203-905-0 Index No 603-014-00- 0	1-<5	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	<b>!</b>	GHS-HC IOELV		

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Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes	Specific Conc. Limits	M-Factors
Sodium hy- droxide	CAS No 1310-73-2 EC No 215-185-5 Index No 011-002-00- 6	1-<5	Met. Corr. 1 / H290 Skin Corr. 1A / H314 Eye Dam. 1 / H318			Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Dam. 1; H318: C ≥ 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	
2-aminoethan- ol	CAS No 141-43-5 EC No 205-483-3 Index No 603-030-00- 8	1-<5	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335 Aquatic Chronic 3 / H412	1	IOELV	STOT SE 3; H335: C ≥ 5 %	
Isotridecanol, ethoxylated (>=2.5 EO)	CAS No 69011-36-5 EC No 931-138-8	1-<5	Acute Tox. 4 / H302 Eye Dam. 1 / H318	(!)		Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 1 % ≤ C < 10 %	

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC,

Annex VI)
Substance with a community indicative occupational exposure limit value

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Butylglycol	-	-	1,200 <sup>mg</sup> / <sub>kg</sub> 11 <sup>mg</sup> / <sub>l</sub> /4h	oral inhalation: vapour
Sodium hydroxide	Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Dam. 1; H318: C ≥ 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	-	325 <sup>mg</sup> / <sub>kg</sub>	oral
2-aminoethanol	STOT SE 3; H335: C ≥ 5 %	-	1,089 <sup>mg</sup> / <sub>kg</sub> 2,504 <sup>mg</sup> / <sub>kg</sub> 11 <sup>mg</sup> / <sub>l</sub> /4h	oral dermal inhalation: vapour
Isotridecanol, ethoxylated (>=2.5 EO)	Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 1 % ≤ C < 10 %	-	555.6 <sup>mg</sup> / <sub>kg</sub>	oral

For full text of H-phrases: see SECTION 16.

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

#### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

#### Self-protection of the first aider

Provision of sufficient ventilation. Wear suitable protective clothing, gloves and eye/face protection.

### 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

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

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

Substance or mixture corrosive to metals.

Hazardous combustion products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance. Self-contained breathing apparatus (SCBA). SCBA with a chemical protection suit only where personal (close) contact is likely.

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

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

### For non-emergency personnel

Follow emergency procedures such as the need to evacuate the danger area or to consult an expert. Remove persons to safety. Provision of sufficient ventilation. Prevent skin contact. Avoid inhaling sprayed product. Collection and use of expertise.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

#### Appropriate containment techniques

Use of adsorbent materials.

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

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

- Handling of incompatible substances or mixtures

Do not mix with acids.

### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Managing of associated risks

- Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

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Control of effects

Protect from sunlight.

Protect against external exposure, such as

frost

- Packaging compatibilities

Keep only in original container. Only packagings which are approved (e.g. acc. to ADR) may be used.

#### 7.3 Specific end use(s)

Cleaning agent. Industrial uses. Professional uses.

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

#### 8.1 **Control parameters**

#### **National limit values**

Occupational exposure limit values (Workplace Exposure Limits)

Occupational exposure limit values (Workplace Exposure Limits)

Coun try	Name of agent	CAS No	Nota tion	Iden- tifier	TWA [ppm]	TWA [mg/ m³]	STEL [ppm]	STEL [mg/ m³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m³]	Sourc e
EU	2-butoxyethanol	111-76-2	Н	IOEL V	20	98	50	246			2000/ 39/EC
EU	2-aminoethanol	141-43-5	Н	IOEL V	1	2.5	3	7.6			2006/ 15/EC
GB	2-butoxyethanol	111-76-2		WEL	25	123	50	246			EH40/ 2005
GB	sodium hydrox- ide	1310-73- 2		WEL				2			EH40/ 2005
GB	2-aminoethanol	141-43-5		WEL	1	2.5	3	7.6			EH40/ 2005

Notation

Ceiling-C

ceiling value is a limit value above which exposure should not occur absorbed through the skin short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute peri-STEL

od (unless otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) TWA

### Biological limit values

Country	Name of agent	Parameter	Nota- tion	Identifier	Value	Source
GB	2-butoxyethanol	2-butoxyacetic acid	crea	BMGV	240 mmol/ mol	EH40/2005

Notation

creatinine

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### Relevant DNELs of components of the mixture

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Name of sub- stance	CAS No	End- point	Threshold level	Protection goal, route of expos- ure	Used in	Exposure time	
2-butoxyethanol	111-76-2	DNEL	125 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects	
2-butoxyethanol	111-76-2	DNEL	89 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects	
2-butoxyethanol	111-76-2	DNEL	98 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects	
2-butoxyethanol	111-76-2	DNEL	1,091 mg/ m³	human, inhalat- ory	worker (industry)	acute - systemic effects	
2-butoxyethanol	111-76-2	DNEL	246 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - local ef- fects	
Sodium hydroxide	1310-73-2	DNEL	1 mg/m³	human, inhalat- ory	worker (industry)	chronic - local ef- fects	
2-aminoethanol	141-43-5	DNEL	3.3 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - local ef- fects	
2-aminoethanol	141-43-5	DNEL	1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects	
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	DNEL	294 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects	
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	DNEL	2,080 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects	

### Relevant PNECs of components of the mixture

CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
111-76-2	PNEC	8.8 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
111-76-2	PNEC	0.88 <sup>mg</sup> / <sub>1</sub>	aquatic organ- isms	marine water	short-term (single instance)
111-76-2	PNEC	463 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
111-76-2	PNEC	34.6 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
111-76-2	PNEC	3.46 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)
111-76-2	PNEC	2.33 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)
141-43-5	PNEC	0.085 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
141-43-5	PNEC	0.009 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
141-43-5	PNEC	100 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
	111-76-2 111-76-2 111-76-2 111-76-2 111-76-2 111-76-2 141-43-5	Point	point         level           111-76-2         PNEC         8.8 mg/ <sub>I</sub> 111-76-2         PNEC         0.88 mg/ <sub>I</sub> 111-76-2         PNEC         463 mg/ <sub>I</sub> 111-76-2         PNEC         34.6 mg/ <sub>kg</sub> 111-76-2         PNEC         3.46 mg/ <sub>kg</sub> 111-76-2         PNEC         2.33 mg/ <sub>kg</sub> 141-43-5         PNEC         0.085 mg/ <sub>I</sub> 141-43-5         PNEC         0.009 mg/ <sub>I</sub>	point         level           111-76-2         PNEC         8.8 mg/ <sub>1</sub> aquatic organisms           111-76-2         PNEC         0.88 mg/ <sub>1</sub> aquatic organisms           111-76-2         PNEC         463 mg/ <sub>1</sub> aquatic organisms           111-76-2         PNEC         34.6 mg/ <sub>kg</sub> aquatic organisms           111-76-2         PNEC         3.46 mg/ <sub>kg</sub> aquatic organisms           111-76-2         PNEC         2.33 mg/ <sub>kg</sub> terrestrial organisms           141-43-5         PNEC         0.085 mg/ <sub>1</sub> aquatic organisms           141-43-5         PNEC         0.009 mg/ <sub>1</sub> aquatic organisms           141-43-5         PNEC         100 mg/ <sub>1</sub> aquatic organisms	pointlevelcompartment111-76-2PNEC $8.8  ^{mg}/_{1}$ aquatic organismsfreshwater111-76-2PNEC $0.88  ^{mg}/_{1}$ aquatic organismsmarine water111-76-2PNEC $463  ^{mg}/_{1}$ aquatic organismssewage treatment plant (STP)111-76-2PNEC $34.6  ^{mg}/_{kg}$ aquatic organismsfreshwater sediment111-76-2PNEC $3.46  ^{mg}/_{kg}$ aquatic organismssoil111-76-2PNEC $2.33  ^{mg}/_{kg}$ terrestrial organismssoil141-43-5PNEC $0.085  ^{mg}/_{1}$ aquatic organismsfreshwater141-43-5PNEC $0.009  ^{mg}/_{1}$ aquatic organismsmarine water141-43-5PNEC $0.009  ^{mg}/_{1}$ aquatic organismssewage treatment

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### Relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time		
2-aminoethanol	141-43-5	PNEC	0.434 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)		
2-aminoethanol	141-43-5	PNEC	0.043 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (single instance)		
2-aminoethanol	141-43-5	PNEC	0.037 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)		
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	0.074 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)		
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	0.007 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)		
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	0.015 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	water	intermittent re- lease		
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	1.4 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)		
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	0.604 <sup>mg</sup> /	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)		
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	0.06 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)		
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	0.1 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)		

### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face 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. 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.

- Type of material

NBR: acrylonitrile-butadiene rubber

- Material thickness
- > 0.35 mm
- Breakthrough times of the glove material
- >480 minutes (permeation: level 6)
- Other protection measures

Protective clothing against liquid chemicals. Footwear protecting against chemicals. Preventive skin protection (barrier creams/ointments) is recommended. Take recovery periods for skin regeneration. Wash hands thoroughly after handling.

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### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

### Environmental exposure controls

Use appropriate container to avoid environmental contamination. 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	-74.8 °C at 1 atm
Boiling point or initial boiling point and boiling range	100 °C
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	>100 °C at 1,013 hPa
Auto-ignition temperature	230 °C (auto-ignition temperature (liquids and gases))
pH (value)	12.5 (20 °C) (base)
Kinematic viscosity	not determined

### Solubility(ies)

Water solubility	miscible in any proportion
water solubility	misciple in any proportion

### Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	2.339 kPa at 20 °C (calculated value, referring to a com-
	ponent of the mixture)

Density and/or relative density

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Density	1.02 <sup>g</sup> / <sub>cm³</sub> at 20 °C		
Relative vapour density	information on this property is not available		

Particle characteristics	not relevant (liquid)
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#### 9.2 Other information

Information with regard to physical hazard classes	there is no additional information
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### Other safety characteristics

Miscibility	Completely miscible with water.		
VOC content	5.838 %		

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

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". Substance or mixture corrosive to metals.

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

May be corrosive to metals.

#### 10.5 Incompatible materials

Acids, Oxidisers

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. 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

Shall not be classified as acutely toxic.

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### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE	
2-butoxyethanol	111-76-2	oral	1,200 <sup>mg</sup> / <sub>kg</sub>	
2-butoxyethanol	111-76-2	inhalation: vapour	11 <sup>mg</sup> / <sub>l</sub> /4h	
Sodium hydroxide	1310-73-2 oral		325 <sup>mg</sup> / <sub>kg</sub>	
2-aminoethanol	141-43-5	oral	1,089 <sup>mg</sup> / <sub>kg</sub>	
2-aminoethanol	141-43-5	dermal	2,504 <sup>mg</sup> / <sub>kg</sub>	
2-aminoethanol	141-43-5	inhalation: vapour	11 <sup>mg</sup> / <sub>l</sub> /4h	
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	oral	555.6 <sup>mg</sup> / <sub>kg</sub>	

### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
2-butoxyethanol	111-76-2	dermal	LD50	>2,000 <sup>mg</sup> / <sub>kg</sub>	rat
2-butoxyethanol	111-76-2	oral	LD50	1,414 <sup>mg</sup> / <sub>kg</sub>	guinea pig
Sodium hydroxide	1310-73-2	oral	LD50	325 <sup>mg</sup> / <sub>kg</sub>	rabbit
2-aminoethanol	141-43-5	dermal	LD50	2,504 <sup>mg</sup> / <sub>kg</sub>	rabbit
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	oral	LD50	>2,000 <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.

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### 11.2 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.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-butoxyethanol	111-76-2	LC50	1,474 <sup>mg</sup> / <sub>l</sub>	fish	96 h
2-butoxyethanol	111-76-2	EC50	1,550 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
2-butoxyethanol	111-76-2	ErC50	1,840 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Sodium hydroxide	1310-73-2	LC50	<180 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Sodium hydroxide	1310-73-2	EC50	40.4 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
2-aminoethanol	141-43-5	LC50	349 <sup>mg</sup> / <sub>l</sub>	fish	96 h
2-aminoethanol	141-43-5	EC50	65 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
2-aminoethanol	141-43-5	ErC50	2.8 <sup>mg</sup> / <sub>l</sub>	algae	72 h

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

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-butoxyethanol	111-76-2	EC50	297 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	21 d
Sodium hydroxide	1310-73-2	EC50	22 <sup>mg</sup> / <sub>l</sub>	microorganisms	15 min
2-aminoethanol	141-43-5	EC50	2.5 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	21 d

### 12.2 Persistence and degradability

Degradability of components of the mixture

	<u>'</u>					
Name of sub- stance	CAS No	Process	Degradation rate	Time	Method	Source
2-butoxyethan- ol	111-76-2	carbon dioxide generation	18.3 %	3 d		ECHA
2-aminoethan- ol	141-43-5	DOC removal	>90 %	21 d		ECHA
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	DOC removal	82 %	28 d		ECHA

### 12.3 Bioaccumulative potential

Data are not available.

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### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
2-butoxyethanol	111-76-2		0.81 (pH value: 7, 25 °C)	
2-aminoethanol	141-43-5	2.3	-2.3 (25 °C)	
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	232.5		

### 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

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. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

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

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

#### 14.1 UN number or ID number

ADR/RID	UN 3267
IMDG-Code	UN 3267
ICAO-TI	UN 3267

### 14.2 UN proper shipping name

ADR/RID CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. IMDG-Code CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

ICAO-TI Corrosive liquid, basic, organic, n.o.s.

Technical name (hazardous ingredients) 2-aminoethanol, Sodium hydroxide

#### 14.3 Transport hazard class(es)

ADR/RID	8
IMDG-Code	8

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ICAO TI

ICAO-TI 8

14.4 Packing group

ADR/RID III
IMDG-Code III
ICAO-TI III

**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.

### Information for each of the UN Model Regulations

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

Classification code	
Danger label(s)	8



Special provisions (SP)	274
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	Е
Hazard identification No	80
Emergency Action Code	2X

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

Classification code	
Danger label(s)	8



Special provisions (SP)	274
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Hazard identification No	80

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

Marine pollutant -

Danger label(s) 8



Special provisions (SP) 223, 274

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L

EmS F-A, S-B

Stowage category A

Segregation group 18 - Alkalis

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

Danger label(s) 8



Special provisions (SP) A3
Excepted quantities (EQ) E1
Limited quantities (LQ) 1 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)

None of the ingredients are listed.

### **Deco-Paint Directive**

VOC content	4.688 %
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### **Industrial Emissions Directive (IED)**

VOC content	5.838 %

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

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

### **Soot & Rust Remover**

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

List of pollutants (WFD)

Name of substance	CAS No	Listed in	Remarks
Sodium hydroxide		a)	

Legend

A) Indicative list of the main pollutants

### 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

Dangerous substances with restrictions (GB REACH, Annex 17)

Name of substance	Name acc. to inventory	CAS No	No
Soot & Rust Remover	this product meets the criteria for clastion in accordance with Regulation No 1272/ 2008/EC		3

### **National inventories**

Country	Inventory	Status
EU	REACH Reg.	not all ingredients are listed

Legend

REACH Reg. REACH registered substances

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

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

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

Section	Former entry (text/value)	Actual entry (text/value) S	afety- relev- ant
2.2	- Hazardous ingredients for labelling: Sodium hydroxide, 2-aminoethanol, Isotri- decanol, ethoxylated	- Hazardous ingredients for labelling: Sodium hydroxide, 2-aminoethanol, Isotri- decanol, ethoxylated (>=2.5 EO)	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
9.2	VOC content: 5.826 %	VOC content: 5.838 %	yes

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### **Soot & Rust Remover**

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Section	Former entry (text/value)	Actual entry (text/value) Sa	relev- ant
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
11.1		Acute toxicity of components of the mixture: change in the listing (table)	yes
15.1	VOC content: 4.368 %	VOC content: 4.688 %	yes
15.1	VOC content: 5.826 %	VOC content: 5.838 %	yes
15.1	Water Framework Directive (WFD): none of the ingredients are listed	Water Framework Directive (WFD)	yes
15.1		List of pollutants (WFD): change in the listing (table)	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	yes
15.1		Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes

### Abbreviations and acronyms

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Abbr.	Descriptions of used abbreviations	
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC	
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC	
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)	
Ceiling-C	Ceiling value	
COD	Chemical oxygen demand	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DNEL	Derived No-Effect Level	

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Abbr.	Descriptions of used abbreviations
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)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
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
IOELV	Indicative occupational exposure limit value
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 specified time interval
log KOW	n-Octanol/water
Met. Corr.	Substance or mixture corrosive to metals
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
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)
SCBA	Self-contained breathing apparatus

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Abbr.	Descriptions of used abbreviations
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

#### 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
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

#### **Disclaimer**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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