



# HG colour run restorer for whites

## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law, and based on EU 2020/878.  
Issue date: 24/06/2024 Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : HG colour run restorer for whites  
Product code : 275 ART  
Type of product : Detergent  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Consumer use  
Use of the substance/mixture : Laundry detergents - household use

##### 1.2.2. Uses advised against

Restrictions on use : All other uses not recommended above

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

HG International B.V.  
P.J. Oudweg 41  
NL- 1314 CJ Almere  
The Netherlands  
T +31 (0)36 54 94 700  
[safety@hg.eu](mailto:safety@hg.eu) - [www.hg.eu](http://www.hg.eu)

#### 1.4. Emergency telephone number

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

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

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 1 H318  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Causes serious eye damage.

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### 2.2. Label elements

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

Hazard pictograms (GB CLP) :



GHS05

Signal word (GB CLP) : Danger  
Contains : Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide  
Hazard statements (GB CLP) : H318 - Causes serious eye damage.  
Precautionary statements (GB CLP) : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P280 - Wear eye protection, protective gloves.  
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, a doctor.  
EUH-statements (GB CLP) : EUH031 - Contact with acids liberates toxic gas.  
Child-resistant fastening : Not applicable  
Tactile warning : Not applicable

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with UK REACH Annex XIII

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
sodium carbonate	CAS-No.: 497-19-8 EC-No.: 207-838-8 REACH-no: 01-2119485498-19	$\geq 7 - < 15$	Eye Irrit. 2, H319
Sodium hydrogencarbonate	CAS-No.: 144-55-8 EC-No.: 205-633-8 REACH-no: 01-2119457606-32	$\geq 7 - < 10$	Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h)
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	EC-No.: 932-051-8 REACH-no: 01-2119565112-48	$\geq 7 - < 10$	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Zeolite	CAS-No.: 1318-02-1 EC-No.: 930-985-0 REACH-no: 01-2119429034-49	$\geq 1 - < 2$	Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight)

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Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
trisodium nitrilotriacetate	CAS-No.: 5064-31-3 EC-No.: 225-768-6 REACH-no: 01-2119519239-36	≥ 0.1 – < 1	Acute Tox. 4 (Oral), H302 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=5 mg/l/4h) Eye Irrit. 2, H319 Carc. 2, H351 STOT RE 1, H372
sodium metabisulphite	CAS-No.: 7681-57-4 EC-No.: 231-673-0 REACH-no: 01-2119531326-45	≥ 0.1 – < 1	Acute Tox. 4 (Oral), H302 (ATE=1540 mg/kg bodyweight) Eye Dam. 1, H318 EUH031
subtilisin	CAS-No.: 01-01-14 EC-No.: 232-752-2 UK Index-No.: 647-012-00-8 REACH-no: 01-2119480434-38	≥ 0.01 – < 0.1	STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334
Bornan-2-one	CAS-No.: 76-22-2 EC-No.: 200-945-0 REACH-no: 01-2119966156-31	≥ 0.001 – < 0.01	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371 Aquatic Chronic 2, H411

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

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

Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.
Symptoms/effects after skin contact	: Contact during a long period may cause light irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.
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### 5.2. Special hazards arising from the substance or mixture

Explosion hazard	: No direct explosion hazard.
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Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Precautionary measures fire : Evacuate area. Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Runoff from fire control or dilution water may cause pollution.

Firefighting instructions : Evacuate area. Eliminate all ignition sources if safe to do so. Do not enter fire area without proper protective equipment, including respiratory protection.

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

## SECTION 6: Accidental release measures

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

General measures : Do not handle until all safety precautions have been read and understood. Evacuate area. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

Protective equipment : See Section 8 for information on personal protection equipment.

Emergency procedures : Keep unnecessary and unprotected personnel away from the spillage. Only qualified personnel equipped with suitable protective equipment may intervene. Take off contaminated clothing. Do not touch or walk on the spilled product. Avoid dust formation. Avoid dust to spread. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.1.2. For emergency responders

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

Emergency procedures : Evacuate unnecessary personnel.

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.

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

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

Precautions for safe handling : Ensure good ventilation of the work station. Keep containers closed. Keep only in original container. Protect from moisture. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Keep workplace clean and tidy as much as possible. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

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

Storage conditions : Store in dry, cool, well-ventilated area. Always keep container in upright position. Protect from moisture.

Incompatible products : Oxidizing agent. Strong acids.

Incompatible materials : Oxidizing materials. Keep away from (strong) acids.

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Storage temperature	: 0 – 30 °C
Heat and ignition sources	: Keep away from heat and direct sunlight.
Special rules on packaging	: Keep only in original container. Opened containers must be carefully closed and kept upright to avoid leakage.
Packaging materials	: Store always product in container of same material as original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

sodium metabisulphite (7681-57-4)	
United Kingdom - Occupational Exposure Limits	
Local name	Disodium disulphite
WEL TWA (OEL TWA)	5 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
subtilisin (01-01-14)	
United Kingdom - Occupational Exposure Limits	
Local name	Subtilisins (Bacillus subtilis Carlsberg)
WEL TWA (OEL TWA)	0.00004 mg/m <sup>3</sup>
Remark	Sen (Capable of causing occupational asthma)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Bornan-2-one (76-22-2)	
United Kingdom - Occupational Exposure Limits	
Local name	Bornan-2-one
WEL TWA (OEL TWA)	13 mg/m <sup>3</sup>
	2 ppm
WEL STEL (OEL STEL)	19 mg/m <sup>3</sup>
	3 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment - Report preview:

Wear recommended personal protective equipment.

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

##### Eye protection - Report preview:

Safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses with side shields	Normal use conditions		EN 166

##### 8.2.2.2. Skin protection

##### Skin and body protection - Report preview:

Chemical resistant safety shoes. Long sleeved protective clothing

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

##### Hand protection - Report preview:

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.35		EN ISO 374
Disposable gloves	Butyl rubber	6 (> 480 minutes)	0.5		EN ISO 374

##### 8.2.2.3. Respiratory protection

Respiratory protection			
Device	Filter type	Condition	Standard
Dust mask	FFFP2	Dust protection	EN 149

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

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### SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Colour	: White.
Appearance	: Powder.
Odour	: perfumed.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: > 7.5 – 8.5
pH solution concentration	: 1 %
Viscosity, kinematic	: Not applicable
Solubility	: In water, material soluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 980 – 1080
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

#### Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Boiling point	> 400 °C Atm. press.: 101 kPa Decomposition: 'no'
Vapour pressure	< 0.001 Pa 25°C

#### sodium carbonate (497-19-8)

Boiling point	1600 °C
Vapour pressure	0 Pa 25°C

#### trisodium nitrilotriacetate (5064-31-3)

Boiling point	> 250 °C
Auto-ignition temperature	571 °C
Vapour pressure	< 0.001 Pa 25°C

#### sodium metabisulphite (7681-57-4)

Vapour pressure	0 Pa 25°C
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#### Sodium hydrogencarbonate (144-55-8)

Vapour pressure	< 0.001 Pa 25°C
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### subtilisin (01-01-14)

Vapour pressure	< 0.001 Pa 25°C
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### Bornan-2-one (76-22-2)

Boiling point	204 °C Remarks on result: 'other:'
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Flash point	150 °F Source: NIOSH
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Auto-ignition temperature	466 °C Source: IPCS
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Vapour pressure	0.65 mm Hg Temp.: 25 °C
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### Zeolite (1318-02-1)

Vapour pressure	0 Pa 25°C
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## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Acids.

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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



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<b>Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide</b>	
LD50 oral rat	≥ 3346 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), 95% CL: 3196 - 3503
LD50 oral	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
<b>sodium carbonate (497-19-8)</b>	
LD50 oral rat	2800 mg/kg bodyweight Animal: rat
LD50 oral	4090 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:
LC50 Inhalation - Rat (Dust/Mist)	2300 mg/l
<b>trisodium nitrilotriacetate (5064-31-3)</b>	
LD50 oral rat	1100 mg/kg
LD50 oral	1740 mg/kg bodyweight
LD50 dermal rabbit	10000 mg/kg
LD50 dermal	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	5 mg/l
LC50 Inhalation - Rat (Dust/Mist)	> 5000 mg/l
ATE GB CLP (oral)	1100 mg/kg bodyweight
ATE GB CLP (dermal)	10000 mg/kg bodyweight
ATE GB CLP (vapours)	5 mg/l/4h
ATE GB CLP (dust, mist)	5 mg/l/4h
<b>sodium metabisulphite (7681-57-4)</b>	
LD50 oral rat	1540 mg/kg Source: ECHA
LD50 oral	1540 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.5 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 5.5 mg/l Source: ECHA
ATE GB CLP (oral)	1540 mg/kg bodyweight
<b>Sodium hydrogencarbonate (144-55-8)</b>	
LD50 oral rat	4220 mg/kg Source: IUCLID, HSDB
LC50 Inhalation - Rat	> 4.74 mg/l
LC50 Inhalation - Rat (Dust/Mist)	4740 mg/l
ATE GB CLP (oral)	4220 mg/kg bodyweight
ATE GB CLP (dust, mist)	1.5 mg/l/4h
<b>subtilisin (01-01-14)</b>	
LD50 oral rat	1800 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1200 - 2300

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<b>subtilisin (01-01-14)</b>	
ATE GB CLP (oral)	1800 mg/kg bodyweight
<b>Bornan-2-one (76-22-2)</b>	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 10 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 5 mg/l
ATE GB CLP (oral)	500 mg/kg bodyweight
ATE GB CLP (gases)	4500 ppmv/4h
ATE GB CLP (vapours)	11 mg/l/4h
ATE GB CLP (dust, mist)	1.5 mg/l/4h
<b>Zeolite (1318-02-1)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE GB CLP (dermal)	1100 mg/kg bodyweight
Skin corrosion/irritation	: Not classified (Conclusive but not sufficient for classification) pH: > 7.5 – 8.5
<b>sodium carbonate (497-19-8)</b>	
pH	≈ 11.6 Concentration: (≈)0,1 other:
<b>sodium metabisulphite (7681-57-4)</b>	
pH	4.3
<b>Sodium hydrogencarbonate (144-55-8)</b>	
pH	8.3
Serious eye damage/irritation	: Causes serious eye damage. pH: > 7.5 – 8.5
<b>sodium carbonate (497-19-8)</b>	
pH	≈ 11.6 Concentration: (≈)0,1 other:
<b>sodium metabisulphite (7681-57-4)</b>	
pH	4.3
<b>Sodium hydrogencarbonate (144-55-8)</b>	
pH	8.3
Respiratory or skin sensitisation	: Not classified (Conclusive but not sufficient for classification)
Germ cell mutagenicity	: Not classified (Conclusive but not sufficient for classification)
Carcinogenicity	: Not classified (Conclusive but not sufficient for classification)
<b>Zeolite (1318-02-1)</b>	
IARC group	3 - Not classifiable
<b>trisodium nitrilotriacetate (5064-31-3)</b>	
NOAEL (chronic, oral, animal/male, 2 years)	100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Remarks on results: other:

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Reproductive toxicity : Not classified (Conclusive but not sufficient for classification)  
STOT-single exposure : Not classified (Conclusive but not sufficient for classification)

### subtilisin (01-01-14)

STOT-single exposure : May cause respiratory irritation.

### Bornan-2-one (76-22-2)

STOT-single exposure : May cause damage to organs.

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

### trisodium nitrilotriacetate (5064-31-3)

NOAEL (oral, rat, 90 days) : 9 mg/kg bodyweight Animal: rat, Animal sex: male

NOAEL (dermal, rat/rabbit, 90 days) : 50 mg/kg bodyweight Animal: rabbit

### subtilisin (01-01-14)

NOAEL (oral, rat, 90 days) : 360 – 891 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

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

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Viscosity, kinematic : Not applicable

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

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

### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Conclusive but not sufficient for classification)

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

### Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

LC50 - Fish [1] : > 1 mg/l

EC50 - Crustacea [1] : 8.8 mg/l Test organisms (species): Daphnia magna

EC50 - Other aquatic organisms [1] : > 1 mg/l waterflea

EC50 - Other aquatic organisms [2] : > 10 mg/l

EC50 72h - Algae [1] : 25 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

EC50 72h - Algae [2] : 72 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

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<b>Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide</b>	
NOEC (chronic)	1.18 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.23 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '72 d'
<b>sodium carbonate (497-19-8)</b>	
LC50 - Fish [1]	300 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.
EC50 96h - Algae [1]	242 mg/l Source: ECOTOX
<b>trisodium nitrilotriacetate (5064-31-3)</b>	
LC50 - Fish [1]	125 mg/l
EC50 - Other aquatic organisms [1]	98 mg/l waterflea
EC50 - Other aquatic organisms [2]	> 91.5 mg/l
EC50 72h - Algae [1]	> 91.5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	9.3 mg/l Test organisms (species): other aquatic arthropod: Duration: '147 d'
NOEC chronic fish	> 54 mg/l Test organisms (species): Pimephales promelas Duration: '224 d'
<b>sodium metabisulphite (7681-57-4)</b>	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	89 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	88.76 mg/l waterflea
EC50 - Other aquatic organisms [2]	48 mg/l
EC50 72h - Algae [1]	43.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	43.8 mg/l Source: EHCA
NOEC (chronic)	> 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 316 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'
<b>Sodium hydrogencarbonate (144-55-8)</b>	
EC50 - Crustacea [1]	4100 mg/l Source: EPA OPP 72-2
NOEC chronic fish	5200 mg/l Lepomis macrochirus (Bluegill), 96 h
NOEC chronic crustacea	> 576 mg/l Daphnia magna (Water flea), 21 d
<b>subtilisin (01-01-14)</b>	
LC50 - Fish [1]	14.6 mg/l Oncorhynchus mykiss
LC50 - Fish [2]	8.2 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	0.306 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	170 µg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.513 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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<b>subtilisin (01-01-14)</b>	
EC50 72h - Algae [2]	1.48 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
<b>Zeolite (1318-02-1)</b>	
EC50 - Crustacea [1]	1000 mg/l Source: International Uniform Chemical Information Database
EC50 - Other aquatic organisms [1]	377 mg/l waterflea
EC50 - Other aquatic organisms [2]	> 180 mg/l
EC50 96h - Algae [1]	560 mg/l Source: International Uniform Chemical Information Database
LOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 86.7 mg/l Test organisms (species): Pimephales promelas Duration: '30 d'

### 12.2. Persistence and degradability

<b>HG colour run restorer for whites</b>	
Persistence and degradability	Rapidly degradable
<b>Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide</b>	
Persistence and degradability	Rapidly degradable
<b>sodium carbonate (497-19-8)</b>	
Persistence and degradability	Rapidly degradable
<b>trisodium nitrilotriacetate (5064-31-3)</b>	
Persistence and degradability	Rapidly degradable
<b>sodium metabisulphite (7681-57-4)</b>	
Persistence and degradability	Rapidly degradable
<b>Sodium hydrogencarbonate (144-55-8)</b>	
Persistence and degradability	Rapidly degradable
<b>subtilisin (01-01-14)</b>	
Persistence and degradability	Rapidly degradable
<b>Bornan-2-one (76-22-2)</b>	
Persistence and degradability	Rapidly degradable
<b>Zeolite (1318-02-1)</b>	
Persistence and degradability	Rapidly degradable

### 12.3. Bioaccumulative potential

<b>Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide</b>	
Partition coefficient n-octanol/water (Log Pow)	0.7
<b>sodium carbonate (497-19-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	-6.19

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<b>trisodium nitrilotriacetate (5064-31-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	-2.62
<b>sodium metabisulphite (7681-57-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	-3.7
<b>Sodium hydrogencarbonate (144-55-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	-4.01
<b>Bornan-2-one (76-22-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.38 Source: HSDB

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

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

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Dispose of in accordance with relevant local regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.  
Additional information : Do not re-use empty containers.

## SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated for transport				
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>Transport document description</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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## Safety Data Sheet

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ADR	IMDG	IATA	ADN	RID
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

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

##### PIC Regulation (Prior Informed Consent)

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

##### POP Regulation (Persistent Organic Pollutants)

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

##### Ozone Regulation (1005/2009)

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

##### Dual-Use Regulation (428/2009)

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

##### Detergent Regulation (648/2004)

#### Allergenic fragrances > 0.01 %:

LINALOOL

LAVANDULA HYBRIDA OIL; LAVANDULA HYBRIDA EXTRACT; LAVANDULA HYBRIDA FLOWER EXTRACT

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## Safety Data Sheet

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Labelling of contents	
Component	%
anionic surfactants	≥5-<15%
NTA (nitrilotriacetic acid) and salts thereof, zeolites	<5%
enzymes	
optical brighteners	
BENZISOTHIAZOLINONE	
METHYLISOTHIAZOLINONE	
perfumes	
LIMONENE	
LINALOOL	

### Explosives Precursors Regulation (2019/1148)

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

### Drug Precursors Regulation (273/2004)

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

#### 15.1.2. United Kingdom

##### UK REACH Annex XIV (Authorisation List)

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

##### UK REACH Candidate List (SVHC)

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

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes (UK)			
Section	Changed item	Change	Comments
	Adverse health effects caused by endocrine disrupting properties	Added	
12.6 - Endocrine disrupting properties	Adverse effects on the environment caused by endocrine disrupting properties	Added	
7.2 - Conditions for safe storage, including any incompatibilities	Heat and ignition sources	Added	
16 - Other information	Training advice	Added	
16 - Other information	Other information	Added	
7.2 - Conditions for safe storage, including any incompatibilities	Special rules on packaging	Added	



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## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law, and based on EU 2020/878.

Indication of changes (UK)			
Section	Changed item	Change	Comments
13.1 - Waste treatment methods	Product/Packaging disposal recommendations	Added	
7.2 - Conditions for safe storage, including any incompatibilities	Technical measures	Added	
4.2 - Most important symptoms and effects, both acute and delayed	Symptoms/effects after inhalation	Added	
4.2 - Most important symptoms and effects, both acute and delayed	Symptoms/effects after ingestion	Added	
13.1 - Waste treatment methods	Sewage disposal recommendations	Added	
6.3 - Methods and material for containment and cleaning up	For containment	Added	
6.1 - Personal precautions, protective equipment and emergency procedures	Emergency procedures	Added	
13.1 - Waste treatment methods	Additional information	Added	
8.2 - Exposure controls	Personal protective equipment	Added	
7.2 - Conditions for safe storage, including any incompatibilities	Packaging materials	Added	
9.1 - Information on basic physical and chemical properties	Flash point	Added	
7.1 - Precautions for safe handling	Additional hazards when processed	Added	
4.1 - Description of first aid measures	First-aid measures general	Added	
5.3 - Advice for firefighters	Firefighting instructions	Added	

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## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law, and based on EU 2020/878.

Indication of changes (UK)			
Section	Changed item	Change	Comments
6.1 - Personal precautions, protective equipment and emergency procedures	General measures	Added	
6.4 - Reference to other sections	Reference to other sections (8, 13)	Modified	
7.2 - Conditions for safe storage, including any incompatibilities	Storage conditions	Modified	
7.1 - Precautions for safe handling	Hygiene measures	Modified	
5.1 - Extinguishing media	Suitable extinguishing media	Modified	
8.2 - Exposure controls	Respiratory protection	Modified	
4.1 - Description of first aid measures	First-aid measures after skin contact	Modified	
4.1 - Description of first aid measures	First-aid measures after ingestion	Modified	
8.2 - Exposure controls	Eye protection	Modified	
8.2 - Exposure controls	Appropriate engineering controls	Modified	
9.1 - Information on basic physical and chemical properties	Auto-ignition temperature	Modified	
10.5 - Incompatible materials	Incompatible materials	Modified	
6.1 - Personal precautions, protective equipment and emergency procedures	Emergency procedures	Modified	
7.1 - Precautions for safe handling	Precautions for safe handling	Modified	
	Supersedes version of	Added	
	Revision date	Modified	
2.2 - Label elements	Precautionary statements (CLP)	Modified	

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## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law, and based on EU 2020/878.

Indication of changes (UK)			
Section	Changed item	Change	Comments
2.1 - Classification of the substance or mixture	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
3 - Composition/information on ingredients	Composition/information on ingredients	Modified	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds

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## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law, and based on EU 2020/878.

Abbreviations and acronyms:	
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Training advice	: Ensure personnel is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
Other information	: Normal use of this product shall imply use in accordance with the instructions on the packaging. <b>DISCLAIMER OF LIABILITY</b> The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
EUH031	Contact with acids liberates toxic gas.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H251	Self-heating: may catch fire.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.
Self-heat. 1	Self-Heating Substances and Mixtures, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.