

Safety Data Sheet

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

Degreaser

Version number: GHS 1.0

Date of compilation: 2017-02-06

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

1.1 Product identifier

Trade name **Degreaser**
Registration number (REACH) not relevant (mixture)

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

Relevant identified uses Professional use
Uses advised against Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

PVA Hygiene Ltd
Unit 6, Havyat Business Park
Havyat Road
BS40 5PA Wroughton
Bristol
United Kingdom

Telephone: +44(0)1934-862859
Telefax: +44(0)1934-863443

1.4 Emergency telephone number

Emergency information service +44(0)1934-862859
This number is only available during the following office hours: Mon-Fri 09:00 - 17:00

Poison centre		
Country	Name	Telephone
United Kingdom	National Poisons Information Service (NPIS) (medical professionals only)	0344-8920111
United Kingdom	NHS (general public)	non-emergency: 111 or a doctor; emergency: 999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.10	acute toxicity (oral)	4	Acute Tox. 4	H302
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

For full text of abbreviations: see SECTION 16.

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The most important adverse physicochemical, human health and environmental effects
Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

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

- signal word danger

- pictograms

GHS05, GHS07,
GHS08



- hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H373 May cause damage to organs (respiratory tract) through prolonged or repeated exposure (if inhaled).

- precautionary statements

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor/....

- hazardous ingredients for labelling

tetrasodium ethylenediaminetetraacetate, Sodiumdodecylbenzenesulfonate

2.3 Other hazards

Of no significance.

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

The product does not contain any (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the substance and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Specific Conc. Limits	M-Factors
Citric acid	CAS No 5949-29-1 77-92-9 EC No 201-069-1 REACH Reg. No 01- 2119457026- 42-xxxx	10 - < 30	Eye Irrit. 2 / H319			








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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Specific Conc. Limits	M-Factors
tetrasodium ethylenediaminetetraacetate	CAS No 64-02-8 EC No 200-573-9 Index No 607-428-00-2 REACH Reg. No 01- 2119486762- 27-xxxx	10 - < 30	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Eye Dam. 1 / H318 STOT RE 2 / H373	  		
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	CAS No 85586-07-8 EC No 287-809-4 REACH Reg. No 01- 2119489463- 28-xxxx	5 - < 10	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412	 	Eye Dam. 1; H318: C ≥ 20 % Eye Irrit. 2; H319: 10 % ≤ C < 20 %	
Sodium dodecylbenzenesulfonate	CAS No 25155-30-0 EC No 246-680-4 REACH Reg. No 01- 2120088038- 51-xxxx	1 - < 5	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318	 		

Remarks

For full text of Hazard- and EU Hazard-statements: see SECTION 16. All the percentages given are percentages by weight unless stated otherwise.

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. 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

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

Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower.

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Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the anti poison control centre.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water; Foam; Dry extinguishing powder; ABC-powder

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Deposited combustible dust has considerable explosion potential.

Hazardous combustion products

During fire hazardous fumes/smoke could be produced.

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.

Special protective equipment for firefighters

Self-contained breathing apparatus (EN 133). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area. Control of dust.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains. Take up mechanically.

Advices on how to clean up a spill

Take up mechanically.

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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. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

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

- explosive atmospheres

Removal of dust deposits.

- flammability hazards

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

- incompatible substances or mixtures

Observe hints for combined storage. Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- ventilation requirements

Use local and general ventilation.

7.3 Specific end use(s)

There is no additional information.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)								
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
GB	dust		WEL		10			EH40/2005
GB	dust		WEL		4			EH40/2005

Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

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

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
tetrasodium ethylenediaminetetraacetate	64-02-8	DNEL	1.5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
tetrasodium ethylenediaminetetraacetate	64-02-8	DNEL	3 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
tetrasodium ethylenediaminetetraacetate	64-02-8	DNEL	0.6 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
tetrasodium ethylenediaminetetraacetate	64-02-8	DNEL	1.2 mg/m ³	human, inhalatory	consumer (private households)	acute - local effects
tetrasodium ethylenediaminetetraacetate	64-02-8	DNEL	25 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	DNEL	285 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	DNEL	4,060 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	DNEL	85 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	DNEL	2,440 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	DNEL	24 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	52 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	52 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	52 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	52 mg/m ³	human, inhalatory	worker (industry)	acute - local effects

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	57.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	80 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	26 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	26 mg/m ³	human, inhalatory	consumer (private households)	acute - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	26 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	26 mg/m ³	human, inhalatory	consumer (private households)	acute - local effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	28.6 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	40 mg/kg bw/day	human, dermal	consumer (private households)	acute - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	13 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	13 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Citric acid	5949-29-1 77-92-9	PNEC	0.44 mg/l	aquatic organisms	freshwater	short-term (single instance)
Citric acid	5949-29-1 77-92-9	PNEC	0.044 mg/l	aquatic organisms	marine water	short-term (single instance)
Citric acid	5949-29-1 77-92-9	PNEC	1,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Citric acid	5949-29-1 77-92-9	PNEC	34.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Citric acid	5949-29-1 77-92-9	PNEC	3.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Citric acid	5949-29-1 77-92-9	PNEC	33.1 mg/kg	terrestrial organisms	soil	short-term (single instance)
tetrasodium ethylenediaminetetraacetate	64-02-8	PNEC	2.2 mg/l	aquatic organisms	freshwater	short-term (single instance)
tetrasodium ethylenediaminetetraacetate	64-02-8	PNEC	0.22 mg/l	aquatic organisms	marine water	short-term (single instance)
tetrasodium ethylenediaminetetraacetate	64-02-8	PNEC	43 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
tetrasodium ethylenediaminetetraacetate	64-02-8	PNEC	0.72 mg/kg	terrestrial organisms	soil	short-term (single instance)
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	PNEC	0.131 mg/l	aquatic organisms	freshwater	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	PNEC	0.013 mg/l	aquatic organisms	marine water	short-term (single instance)
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	PNEC	0.036 mg/l	aquatic organisms	water	intermittent release
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	PNEC	1.35 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	PNEC	4.61 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	PNEC	0.461 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	PNEC	0.846 mg/kg	terrestrial organisms	soil	short-term (single instance)
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	0.693 mg/l	aquatic organisms	freshwater	short-term (single instance)
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	1 mg/l	aquatic organisms	marine water	short-term (single instance)
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	0.654 mg/l	aquatic organisms	water	intermittent release
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	50 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	27.5 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	2.75 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	25 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection



Goggles to be worn for preparation/dilution of the sachets only.
Goggles are not required for normal use of the ready to use product.

Skin protection

Protective clothing (EN 340).

- hand protection



Chemical protection gloves are suitable, which are tested according to EN 374. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- type of material
Nitrile rubber
 - material thickness
≥ 0,4 mm
 - breakthrough times of the glove material
>120 minutes (permeation: level 4).
 - other protection measures
Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.
- Respiratory protection
In case of inadequate ventilation wear respiratory protection. P2 (filters at least 94 % of airborne particles, colour code: White).
- 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

Appearance

Physical state	solid (powder)
Colour	yellow
Odour	characteristic

Other safety parameters

pH (value)	9 (10 g/l)
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not applicable
Evaporation rate	not determined
Flammability (solid, gas)	non-combustible
Explosion limits of dust clouds	not determined
Vapour pressure	not determined
Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available

Solubility(ies)

- water solubility	miscible in any proportion
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Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined
Viscosity	not relevant (solid matter)
Explosive properties	none
Oxidising properties	none

9.2 Other information

Of no significance.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.5 Incompatible materials

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

Acute toxicity

Harmful if swallowed.

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Citric acid	5949-29-1 77-92-9	oral	LD50	5,400 mg/kg	mouse
Citric acid	5949-29-1 77-92-9	dermal	LD50	>2,000 mg/kg	rat
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	oral	LD50	<2,000 mg/kg	rat

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Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	dermal	LD50	>2,000 mg/kg	rat

Skin corrosion/irritation

Causes skin irritation.

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

May cause damage to organs (respiratory tract) through prolonged or repeated exposure (if inhaled).

Hazard category	Target organ	Exposure route
2	respiratory tract	if inhaled

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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
Citric acid	5949-29-1 77-92-9	LC50	440 mg/l	fish	48 h
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	LC50	3.6 mg/l	fish	96 h
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	EC50	4.7 mg/l	aquatic invertebrates	48 h
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	ErC50	>20 mg/l	algae	72 h

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Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Citric acid	5949-29-1 77-92-9	LC50	1,535 mg/l	aquatic invertebrates	24 h
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	EC50	135 mg/l	microorganisms	3 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

Data are not available.

Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

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

not subject to transport regulations

14.2 UN proper shipping name

not relevant

14.3 Transport hazard class(es)

Class

-

14.4 Packing group

not relevant

14.5 Environmental hazards

14.6 Special precautions for user

There is no additional information.

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14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No data available.

Information for each of the UN Model Regulations

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

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

List of substances subject to authorisation (REACH, Annex XIV)

None of the ingredients are listed.

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

Regulation 98/2013/EU on the marketing and use of explosives precursors

None of the ingredients are listed.

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances

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

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Abbr.	Descriptions of used abbreviations
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
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)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). 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 chapter 2 and 3)

Code	Text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs (respiratory tract) through prolonged or repeated exposure (if inhaled).

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Code	Text
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.