

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

Superclean

Version number: GHS 1.0 Date of compilation: 2025-08-20

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

Product identifier 1.1

Trade name Superclean

Alternative number(s) PR002

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

Relevant identified uses washing and cleaning products (including solvent

based products) professional use

Uses advised against Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Van Eembergen koffie & espressomachines B.V.

Goudlaan 77 - 81 2544 EG Den Haag

Netherlands

Telephone: 070-3099200 e-mail: info@eembergen.nl Website: www.eembergen.nl

Emergency telephone number 1.4

This number is only available during the following **Emergency information service**

office hours: Mon-Fri 09:00 AM - 05:00 PM

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
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 abbreviations: see SECTION 16.

2.2 **Label elements**

Labelling

- Signal word danger

- Pictograms

GHS05



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- Hazard statements

H314 Causes severe skin burns and eye damage.

- Precautionary statements

P260 Do not breathe mist/vapours.

P280 Wear protective gloves/eye 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.

- Hazardous ingredients for labelling disodium metasilicate, Alcohols, C9-11 eth-

oxylated, > 2.5 EO, Sulfonic acids, C14-17-sec-al-

kane, sodium salts

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
disodium metasilicate	CAS No 6834-92-0	1-<5	Skin Corr. 1B / H314 STOT SE 3 / H335
	EC No 229-912-9		
	Index No 014-010-00-8		
sodium (xylenes and 4-ethylben- zene)sulfonates	CAS No 1300-72-7	1-<5	Eye Irrit. 2 / H319
	EC No 215-090-9 701-037-1		
Sulfonic acids, C14-17-sec-alkane, sodium salts	CAS No 97489-15-1	1-<5	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318
	EC No 307-055-2		Aquatic Chronic 3 / H412

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Name of substance	Identifier	Wt%	Classification acc. to GHS
sodium carbonate	CAS No 497-19-8 EC No 207-838-8 Index No	1-<5	Eye Irrit. 2 / H319
	011-005-00-2		
Alcohols, C9-11 ethoxylated, > 2.5 EO	CAS No 68439-46-3	1-<5	Acute Tox. 4 / H302 Eye Dam. 1 / H318
	EC No 931-514-1		

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Sulfonic acids, C14-17-sec- alkane, sodium salts	Acute Tox. 4; H302: C ≥ 60 % Skin Irrit. 2; H315: C ≥ 10 % Eye Dam. 1; H318: C ≥ 15 % Eye Irrit. 2; H319: 10 % ≤ C < 15 %	-	-	
Alcohols, C9-11 ethoxylated, > 2.5 EO	-	-	500 ^{mg} / _{kg}	oral

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air.

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

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. Call a doctor.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. IF exposed or concerned: Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Following eye contact. Following skin contact. Localised redness. Irritability. Causes tears.

4.3 Indication of any immediate medical attention and special treatment needed

none

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Non-combustible

Unsuitable extinguishing media

Not useful, not meaningful, not applicable

5.2 Special hazards arising from the substance or mixture

none

Hazardous combustion products

No known hazardous decomposition products

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. Wear self-contained breathing apparatus. Chemical protection suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Bunding

Advice on how to clean up a spill

Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

6.4 Reference to other sections

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.
- Handling of incompatible substances or mixtures Do not mix with acids.

Advice on general occupational hygiene

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Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

Protect against external exposure, such as frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Relevant DNELs of components Name of substance CAS No En

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
sodium (xylenes and 4-ethylbenzene)sulf- onates	1300-72-7	DNEL	26.9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
sodium (xylenes and 4-ethylbenzene)sulf- onates	1300-72-7	DNEL	136.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Sulfonic acids, C14- 17-sec-alkane, sodi- um salts	97489-15-1	DNEL	35 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Sulfonic acids, C14- 17-sec-alkane, sodi- um salts	97489-15-1	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Alcohols, C9-11 eth- oxylated, > 2.5 EO	68439-46-3	DNEL	294 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Alcohols, C9-11 eth- oxylated, > 2.5 EO	68439-46-3	DNEL	2,080 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
sodium (xylenes and 4-ethylbenzene)sulf- onates	1300-72-7	PNEC	0.23 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)
sodium (xylenes and 4-ethylbenzene)sulf- onates	1300-72-7	PNEC	0.023 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)
sodium (xylenes and 4-ethylbenzene)sulf- onates	1300-72-7	PNEC	100 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
sodium (xylenes and	1300-72-7	PNEC	0.862 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single

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Relevant PNECs o	Relevant PNECs of components					
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
4-ethylbenzene)sulf- onates						instance)
sodium (xylenes and 4-ethylbenzene)sulf- onates	1300-72-7	PNEC	0.086 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)
sodium (xylenes and 4-ethylbenzene)sulf- onates	1300-72-7	PNEC	0.037 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
Sulfonic acids, C14- 17-sec-alkane, sodi- um salts	97489-15-1	PNEC	0.06 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)
Sulfonic acids, C14- 17-sec-alkane, sodi- um salts	97489-15-1	PNEC	0.006 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)
Sulfonic acids, C14- 17-sec-alkane, sodi- um salts	97489-15-1	PNEC	600 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Sulfonic acids, C14- 17-sec-alkane, sodi- um salts	97489-15-1	PNEC	9.4 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)
Sulfonic acids, C14- 17-sec-alkane, sodi- um salts	97489-15-1	PNEC	0.94 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)
Sulfonic acids, C14- 17-sec-alkane, sodi- um salts	97489-15-1	PNEC	9.4 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
Alcohols, C9-11 eth- oxylated, > 2.5 EO	68439-46-3	PNEC	0.104 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)
Alcohols, C9-11 eth- oxylated, > 2.5 EO	68439-46-3	PNEC	0.104 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)
Alcohols, C9-11 eth- oxylated, > 2.5 EO	68439-46-3	PNEC	1.4 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Alcohols, C9-11 eth- oxylated, > 2.5 EO	68439-46-3	PNEC	13.7 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)
Alcohols, C9-11 eth- oxylated, > 2.5 EO	68439-46-3	PNEC	13.7 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)
Alcohols, C9-11 eth- oxylated, > 2.5 EO	68439-46-3	PNEC	1 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls General ventilation.

Individual protection measures (personal protective equipment)

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Eye/face protection



Wear eye/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
- CR: chloroprene (chlorobutadiene) rubber, IIR: isobutene-isoprene (butyl) rubber, FKM: fluoro-elastomer, Nitrile
- Material thickness
 - >0.5mm
- Breakthrough times of the glove material
 >480 minutes (permeation: level 6)
- Other protection measures Wash hands thoroughly after handling.

Respiratory protection

Use local and general ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	light green
Odour	characteristic
Melting point/freezing point	0 °C at 1,013 hPa
Boiling point or initial boiling point and boiling range	100 °C at 1,013 hPa
Flammability	non-combustible
Lower and upper explosion limit	not relevant
Flash point	not relevant
Auto-ignition temperature	not applicable
Decomposition temperature	not relevant
pH (value)	13 (in aqueous solution: 100 vol%, 20 °C) 10.4 (in aqueous solution: 1 vol%, 20 °C) (base)

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Kinematic viscosity	not determined
Solubility(ies)	
Water solubility	miscible in any proportion

Partition coefficient

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

Density and/or relative density

Density	1.06 ^g / _{cm³} 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	hazard classes acc. to GHS (physical hazards): not relevant
	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

10.5 Incompatible materials

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.

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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.

GHS of the United Nations, annex 4: May be harmful if inhaled.

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Alcohols, C9-11 ethoxylated, > 2.5 EO	68439-46-3	oral	500 ^{mg} / _{kg}

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.

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.

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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
disodium metasilicate	6834-92-0	LC50	310 ^{mg} / _l	fish	96 h
disodium metasilicate	6834-92-0	EC50	1,700 ^{mg} / _l	aquatic invertebrates	48 h
sodium (xylenes and 4- ethylbenzene)sulfonates	1300-72-7	LC50	>1,000 ^{mg} / _l	fish	96 h
sodium (xylenes and 4- ethylbenzene)sulfonates	1300-72-7	EC50	>1,000 ^{mg} / _l	aquatic invertebrates	48 h
Sulfonic acids, C14-17- sec-alkane, sodium salts	97489-15-1	LC50	5.5 ^{mg} / _l	fish	96 h
Sulfonic acids, C14-17- sec-alkane, sodium salts	97489-15-1	EC50	9.2 ^{mg} / _l	aquatic invertebrates	48 h
Sulfonic acids, C14-17- sec-alkane, sodium salts	97489-15-1	ErC50	>61 ^{mg} / _l	algae	72 h
sodium carbonate	497-19-8	LC50	300 ^{mg} / _l	fish	96 h
sodium carbonate	497-19-8	EC50	227 ^{mg} / _l	aquatic invertebrates	48 h
Alcohols, C9-11 eth- oxylated, > 2.5 EO	68439-46-3	LC50	7 ^{mg} / _l	fish	96 h
Alcohols, C9-11 eth- oxylated, > 2.5 EO	68439-46-3	EC50	2.5 ^{mg} / _l	aquatic invertebrates	48 h

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
disodium metasilicate	6834-92-0	EC50	>100 ^{mg} / _l	microorganisms	3 h
Alcohols, C9-11 eth- oxylated, > 2.5 EO	68439-46-3	EC50	140 ^{mg} / _l	microorganisms	3 h

12.2 Persistence and degradability

The surfactant contained in this preparation complies with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. The relevant substances of the mixture are readily biodegradable.

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

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

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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 or ID number not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es) none

14.4 Packing group not assigned

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

gerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

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

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

SECTION 15: Regulatory information

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

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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15.1.1.**Regulation on detergents**

Labelling of contents

Constituents
Weight % content (or range)

anionic surfactants
5 % or over but less than 15 %

non-ionic surfactants
less than 5 %

perfumes

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

15.2 Chemical safety assessment

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

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
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

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Abbr.	Descriptions of used abbreviations
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STOT SE	Specific target organ toxicity - single exposure
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

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

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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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.

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