

SAFETY DATA SHEET

SuperClean

EU2261

According to EC Directive (EC) No. 1907/2006 (No. 830/2015)

Preparation Date: 04-May-2018

Revision Date: 03-Feb-2020

Revision Number: 1.0

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name SuperClean
Contains Sodium hydroxide; sodium hypochlorite

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

Recommended use Cleansing agents, alkaline
Uses advised against Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Contact Manufacturer	Supplier
DeLaval N.V. Industriepark-Drongen 10 9031 Gent Belgium	DeLaval AS PO Box 3250 Glynitveien 25 NO-1402 SKI Norway
Tel. +32 9 280 91 21 Email MSDS.EU@delaval.com DeLaval Operations SP. z.o.o ul. Robotnicza 72 53-608 Wrocław Poland Tel: +48 71 782 70 00 Email MSDS.EU@delaval.com	Tel 6485 8500

1.4. Emergency Telephone Number

Emergency Telephone Number 112
Eitrunarmiðstöð LSH Sími 543 2222

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to REGULATION (EC) No 1272/2008

For the full text of the H phrases mentioned in this Section, see Section 16

Acute toxicity - Oral	Category 4. (H302)
Skin corrosion/irritation	Category 1. Sub-category C (H314)
Serious eye damage/eye irritation	Category 1. (H318)
Acute aquatic toxicity	Category 1. (H400)
Chronic aquatic toxicity	Category 2. (H411)
Physical hazards	Corrosive to Metals. Category 1. (H290)

2.2. Label Elements

Labeling according to REGULATION (EC) No 1272/2008

Hazard Pictogram(s)



Signal word

DANGER

Hazard statements

H302 - Harmful if swallowed
 H314 - Causes severe skin burns and eye damage
 H410 - Very toxic to aquatic life with long lasting effects
 H290 - May be corrosive to metals

Precautionary statements

P102 - Keep out of reach of children
 P273 - Avoid release to the environment
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P501 - Dispose of contents/container in accordance with local regulations

Contains

Sodium hydroxide; sodium hypochlorite

2.3. Other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixture

Chemical nature of the preparation.

Chemical name	EC No	CAS No.	Weight-%	EU - GHS Substance Classification	Reach Registration Number
Sodium hydroxide	215-185-5	1310-73-2	10 - 20	Skin Corr. 1A (H314) Met. corr. 1 (H290)	01-2119457892-27
Sodium hypochlorite	231-668-3	7681-52-9	2 - 5	Met. Corr. 1 (H290) Skin Corr. 1B (H314) B Eye dam. 1 (H318)	01-2119488154-34

				Aquatic Acute 1 (H400) B Aquatic Chronic 1 (H410) EUH031	
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For the full text of the H phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

4.1. Description of first-aid measures.

General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Eye contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Ingestion	Immediate medical attention is required. Remove from exposure, lie down. Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician or Poison Control Center immediately.
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

Acute Effects	Causes burns.
Delayed Effects	None known.
Effects of overexposure	None known.

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

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media	Use:; Dry chemical, Carbon dioxide (CO2), Water spray, alcohol-resistant foam
Extinguishing media which must not be used for safety reasons	None.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes.
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5.3. Advice for firefighters

Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.
Other Information	See Section 12 for more information

6.2. Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and materials for containment and cleaning up

Dam up. Soak up with inert absorbent material. Prevent product from entering drains. Keep in suitable and closed containers for disposal.

6.4. Reference to other sections

See Section 12 for more information

For personal protection see section 8

Section 13. Disposal considerations

7. HANDLING AND STORAGE**7.1. Precautions for Safe Handling****Handling**

As a rule, at least 10 air changes per hour are recommended at the workplace.

General Hygiene Considerations

Keep away from food, drink and animal feedingstuffs. When using, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. For environmental protection remove and wash all contaminated protective equipment before re-use. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep away from direct sunlight. Corrosive to metals. Keep away from metals.

German storage class

8A Combustible corrosive substances

7.3. Specific End Use(s)**Exposure Scenario**

Not applicable

Other Guidelines

Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Chemical name	EU	United Kingdom	France	Spain	Germany
Sodium hydroxide 1310-73-2		STEL: 2 mg/m ³	TWA: 2 mg/m ³	STEL: 2 mg/m ³	
Sodium polyacrylate 9003-04-7					TWA: 0.05 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Sodium hydroxide 1310-73-2		Ceiling: 2 mg/m ³		HTP: 2 mg/m ³	Ceiling: 2 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Sodium hydroxide 1310-73-2	STEL: 4 mg/m ³ TWA: 2 mg/m ³	STEL: 2 mg/m ³ TWA: 2 mg/m ³	STEL: 1 mg/m ³ TWA: 0.5 mg/m ³	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³
Chemical name	Sweden	Bulgary	Estonia	Hungary	Croatia
Sodium hydroxide 1310-73-2	LLV: 2mg/m ³ STV: 5mg/m ³			AK-érték: 2 mg/m ³ CK-érték: 2 mg/m ³	KGVI: 2 mg/m ³
Chemical name	Lithuania	Latvia	Belgium	European Union	
Sodium hydroxide 1310-73-2	NRD: 2 mg/m ³ (U)	0.5 mg/m ³	2 mg/m ³ (8hours) (M)		

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2. Exposure controls**Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment**Eye Protection**

Safety glasses with side-shields.

Skin Protection

Long sleeved clothing, impervious clothing. Chemical resistant apron. Boots. Impervious gloves. Neoprene gloves.

Hand Protection

Protective gloves

Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of insufficient ventilation wear suitable respiratory equipment.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow material to contaminate ground water system. Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Light yellow
Odor	Slight chlorine
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>
pH	(1 %) 11.7 - 12.7
Melting Point/Range	No data available
Boiling Point/Range	No data available
Flash Point	> 105 °C
Vapor Pressure	No data available
Water Solubility	soluble
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

Explosive Properties	Not applicable
Oxidizing Properties	Not applicable

9.2. Other Information

Liquid Density	1.18 g/ml
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10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical Stability

Stability	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

Hazardous Polymerization	None under normal processing. Hazardous polymerisation does not occur.
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Possibility of hazardous reactions	None under normal use.
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10.4. Conditions to Avoid

Heat, flames and sparks. Exposure to air or moisture over prolonged periods. Burning produces obnoxious and toxic fumes. Heating can release hazardous gases. To avoid thermal decomposition, do not overheat.

10.5. Incompatible Materials

Incompatible Materials	Incompatible with strong acids and bases, Incompatible with oxidizing agents
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10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects**Acute Toxicity****Inhalation**

Harmful by inhalation.

Eye contact

Corrosive.

Skin contact

Corrosive.

Ingestion

Ingestion causes burns of the upper digestive and respiratory tracts. Can burn mouth, throat, and stomach. Harmful if swallowed.

LD50 Oral:

300-2000 mg/kg; (OECD 423)

LD50 Dermal:

> 2000 mg/kg; (OECD 402)

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	2000 mg/Kg	1350 mg/kg	
Sodium hypochlorite	= 8.91 g/kg (Rat)	> 10000 mg/kg (Rabbit)	

Irritation

No information available.

Corrosivity

Corrosive. Causes severe skin burns and eye damage. (OECD 404).

Sensitization

No information available.

Mutagenic effects

Contains no ingredient listed as a mutagen.

carcinogenic effects

None known.

Reproductive Effects

None known

Developmental Effects

None known

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Aspiration Hazard

No information available

12. ECOLOGICAL INFORMATION**12.1. Toxicity****Ecotoxicity effects**

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Sodium hydroxide		LC50 (96 h) 72 mg/L		
Sodium hypochlorite	0.095: 24 h Skeletonema costatum mg/L EC50	0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through 4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static 0.4 - 0.8: 96 h Lepomis macrochirus mg/L LC50 static 0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.18 - 0.22: 96 h Oncorhynchus		0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static 2.1: 96 h Daphnia magna mg/L EC50

		mykiss mg/L LC50 static		
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12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer

12.3. Bioaccumulative potential.

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with local regulations
Contaminated Packaging	Dispose of in accordance with local regulations.
Other Information	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used

14. TRANSPORT INFORMATION

IMDG/IMO

14.1. UN-No	1719
14.2. Proper shipping name	1719 - Caustic alkali liquid, n.o.s (Sodium hydroxide, Sodium hypochlorite)
14.3. Hazard Class	8
14.4. Packing Group	III
14.5. Environmental hazard	Environmental hazard
14.6. Special Provisions	None
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

ADR/RID

14.1. UN-No	1719
14.2. Proper shipping name	1719 - Caustic alkali liquid, n.o.s (Sodium hydroxide, Sodium hypochlorite)
14.3. Hazard Class	8
14.4. Packing Group	III
14.5. Environmental hazard	Environmental hazard
14.6. Special Provisions	None
Classification Code	80
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

IATA/CAO

14.1. UN-No	1719
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14.2. Proper Shipping Name	1719 - Caustic alkali liquid, n.o.s (Sodium hydroxide, Sodium hypochlorite)
14.3. Hazard Class	8
14.4. Packing Group	III
14.5. Environmental hazard	Environmental hazard
14.6. Special Provisions	None
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

15. REGULATORY INFORMATION

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

WGK Classification Water endangering class = 2

EU Legislations

Reg.1907/2006-REACH

Reg. 830/2015 That modify REACH

Reg.1272/2008 On classification, packaging and labeling of dangerous substances and preparations

Reg. 648/2004/CE

Reg. 2018/1480/CE (ATP 13 CLP)

International Inventories

EINECS/ELINCS All components are listed or exempted

Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

15.2. Chemical Safety Assessment

No data available

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

Key literature references and sources for data

www.ChemADVISOR.com/

Preparation Date: 04-May-2018

Revision Date: 03-Feb-2020

Revision Number: 1.0

Revision Note:

Reason for revision Update Section: 2 (H400 => H410); 3 (ATP 13: NaOCL: +H410)

Some REACH registration numbers given in section 3 are for biocidal active substances and substances of medicinal preparations but are provided as additional information.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information

relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

SuperClean – EU2261 – IS

15. Regulatory Information

Hættusetningarnar

H290 Getur verið ætandi fyrir málma

H302 Hættulegt við inntöku

H314 Veldur alvarlegum bruna á húð og augnskaða

H410 Mjög eitrað fyrir vatnalífverur og hefur langvarandi áhrif

Varnaðarsetningar

P102 Geymist þar sem börn ná ekki til.

P273 Forðist losun út í umhverfið.

P280 Notið hlífðarhanska/hlífðarfátnað/augnhlífur/andlitshlífur

P301 + P312 EFTIR INNTÖKU: Hringið í EITRUNARMÍÐSTÖÐ eða ækni ef lasleika verður vart.

P305 + P351 + P338 BERIST EFNID Í AUGU: Skolið varlega með vatni í nokkrar mínútur. Fjarlægið snertilinsur ef það er auðvelt. Skolið áfram

P501 Fargaðu innihaldi / íláti í samræmi við gildandi reglur