SAFETY DATA SHEET

Duo Clean

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	07.02.2013
Revision date	02.03.2021

1.1. Product identifier

Product name	Duo Clean
Article no.	25281; 25282; 25283; 25284

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

Product group	PROFESSIONAL CLEANING SYSTEM
Use of the substance / preparation	Cleaning agent.
Industrial use	Yes
Professional use	Yes
Consumer use	Yes

1.3. Details of the supplier of the safety data sheet

Supplier

Company name	VEIDEC AB
Postal address	Videvägen 9
Postcode	247 64
City	Veberöd
Country	SVERIGE
Telephone number	+46 46 23 89 00
Fax	+46 46 23 89 09
Email	nina.mandahl@veidec.se
Website	http://www.veidec.com
Contact person	Nina Mandahl

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1.4. Emergency telephone number

Emergency telephone	Telephone number: 112 Description: Poison center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Substance / mixture hazardous properties	Not regarded as a health or environmental hazard under current legislation.

2.2. Label elements

Hazard statements	EUH 210 Safety data sheet available on request.

2.3. Other hazards

Other hazards	No information.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Decan-1-ol, ethoxylated	CAS No.: 26183-52-8 EC No.: Polymer REACH Reg. No.: N/A	Eye Irrit. 2; H319	< 3 %	
C9-11 Alcohol ethoxylate	CAS No.: 68439-46-3 EC No.: 614-482-0 REACH Reg. No.: 01-2119980051-45	Eye Irrit. 2; H319	< 3 %	
Diethylene glycol monobutyl ether	CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8 REACH Reg. No.: 01-2119475104-44	Eye Irrit. 2; H319;	< 2 %	
Caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3 Index No.: 019-002-00-8 REACH Reg. No.: 01-0121119487136-33	Acute tox. 4; H302; Skin Corr. 1A; H314;	< 0,5 %	
Description of the mixture	Content in accordance with 648/2004/EC: 5-15 % Nonionic surfactants.			
Remarks, substance	The full text for all hazard statements is displayed in section 16.			

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Get medical attention if any discomfort continues.
Inhalation	Fresh air.
Skin contact	Wash skin with soap and water.

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Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	Drink plenty of water. Contact physician if larger quantity has been consumed.

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

General symptoms and effects	None known.

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

Separate first aid equipment	No recommendation given.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	This product is not flammable.

5.3. Advice for firefighters

Fire fighting procedures	Follow the general fire precautions indicated by the workplace.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Ventilate well.
Emergency procedures	No recommendation given.
For emergency responders	No recommendation given.

6.2. Environmental precautions

Environmental precautionary measures	Prevent discharge of larger quantity to drain.

6.3. Methods and material for containment and cleaning up

Clean up	Dam and absorb spillages with sand, earth or other non-combustible material.

6.4. Reference to other sections

Additional information	For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Protective safety measures

Advice on general occupational hygiene	Wash at the end of each work shift and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store above freezing.

Conditions for safe storage

Technical measures and storage conditions	No special precautions.

7.3. Specific end use(s)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Diethylene glycol monobutyl ether	CAS No.: 112-34-5	Limit value (8 h) : 10 ppm Limit value (8 h) : 67,5 mg/m³ **Limit value (short term)** Value: 15 ppm **Limit value (short term)** Value: 101,2 mg/m³	
Caustic potash	CAS No.: 1310-58-3	**Limit value (short term)** Value: 2 mg/m³	

DNEL / PNEC

DNEL	Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 67,5 mg/m³ Comments: 2-(2-butoxyethoxy)ethanol Group: Professional Route of exposure: Long-term dermal (systemic) Value: 83 mg/kg bw/day Comments: 2-(2-butoxyethoxy)ethanol Assessment factor: 24 Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 40,5 mg/m³ Comments: 2-(2-butoxyethoxy)ethanol Group: Consumer Route of exposure: Long-term dermal (systemic) Value: 50 mg/kg bw/day Comments: 2-(2-butoxyethoxy)ethanol Assessment factor: 40 Group: Consumer

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	Route of exposure: Long-term oral (systemic) Value: 5 mg/kg bw/day Comments: 2-(2-butoxyethoxy)ethanol Assessment factor: 40
Substance	Decan-1-ol, ethoxylated
DNEL	**Group:** Professional **Route of exposure:** Long-term inhalation (systemic) **Value:** 295 mg/m³ **Assessment factor:** 3 **Group:** Professional **Route of exposure:** Long-term dermal (systemic) **Value:** 2080 mg/kg bw/day **Assessment factor:** 12 **Group:** Consumer **Route of exposure:** Long-term inhalation (systemic) **Value:** 87 mg/m³ **Assessment factor:** 5 **Group:** Consumer **Route of exposure:** Long-term dermal (systemic) **Value:** 1250 mg/kg bw/day **Assessment factor:** 20 **Group:** Consumer **Route of exposure:** Long-term oral (systemic) **Value:** 25 mg/kg bw/day **Assessment factor:** 20
PNEC	**Route of exposure:** Freshwater **Value:** 0,292 mg/l **Assessment factor:** 10 **Route of exposure:** Saltwater **Value:** 0,029 mg/l **Assessment factor:** 100 **Route of exposure:** Sewage treatment plant STP **Value:** 1,4 mg/l **Assessment factor:** 100 **Route of exposure:** Soil **Value:** 1 mg/kg dw **Assessment factor:** 100
Substance	C9-11 Alcohol ethoxylate
DNEL	**Group:** Professional **Route of exposure:** Long-term inhalation (systemic) **Value:** 294 mg/m³ **Assessment factor:** 3 **Group:** Professional **Route of exposure:** Long-term dermal (systemic) **Value:** 2080 mg/kg bw/day

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	Assessment factor: 12 **Group:** Consumer **Route of exposure:** Long-term inhalation (systemic) **Value:** 87 mg/m³ **Assessment factor:** 5 **Group:** Consumer **Route of exposure:** Long-term dermal (systemic) **Value:** 1250 mg/kg bw/day **Assessment factor:** 20 **Group:** Consumer **Route of exposure:** Long-term oral (systemic) **Value:** 25 mg/kg bw/day **Assessment factor:** 20
PNEC	**Route of exposure:** Freshwater **Value:** 0,104 mg/l **Assessment factor:** 1 **Route of exposure:** Sewage treatment plant STP **Value:** 1,4 mg/l **Assessment factor:** 100 **Route of exposure:** Soil **Value:** 1 mg/kg dw **Assessment factor:** 100

8.2. Exposure controls

Precautionary measures to prevent exposure

Appropriate engineering controls	No special precautions.

Eye / face protection

Suitable eye protection	Under normal conditions of use eye protection is not required.

Hand protection

Skin- / hand protection, short term contact	Under normal conditions of use gloves are not normally required.
Skin- / hand protection, long term contact	For prolonged or repeated skin contact use suitable protective gloves.
Suitable materials	Nitrile.
Breakthrough time	Value: 480'
Thickness of glove material	Value: ≥ 0,4 mm

Skin protection

Suitable protective clothing	Not relevant.

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Respiratory protection

Recommended type of equipment	Under normal conditions of use respiration protection should not be required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Clear
Odour	Characteristic.
pH	Status: In delivery state Value: 10,7 Temperature: 20 °C
Freezing point	Reason for waiving data: No data.
Boiling point / boiling range	Value: 100 °C
Flash point	Reason for waiving data: Not applicable
Flammability	This product is not flammable.
Explosion limit	Reason for waiving data: Not applicable
Vapour pressure	Reason for waiving data: No data.
Density	Value: 1,03 g/cm³ Temperature: 20 °C
Solubility	Comments: Soluble in water.
Auto-ignition temperature	Reason for waiving data: Not applicable
Viscosity	Reason for waiving data: No data.

9.2. Other information

Physical hazards

Content of VOC	Value: 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No specific conditions are likely to result in a hazardous situation.

10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No data recorded.

10.4. Conditions to avoid

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Conditions to avoid	No recommendation given.

10.5. Incompatible materials

Materials to avoid	None in particular.

10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other information regarding health hazards

Assessment of acute toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of skin corrosion / irritation, classification	Based on available data, the classification criteria are not met.
Assessment of eye damage or irritation, classification	Based on available data, the classification criteria are not met.
Assessment of respiratory sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of skin sensitisation, classification	Based on available data, the classification criteria are not met.
Skin contact	May be degreasing after frequent contact.
Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met.
Assessment of reproductive toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - single exposure, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data, the classification criteria are not met.
Assessment of aspiration hazard, classification	Based on available data, the classification criteria are not met.

11.2 Other information

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	There are no data on the ecotoxicity of this product.

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12.2. Persistence and degradability

Persistence and degradability description/evaluation	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.
Substance	C9-11 Alcohol ethoxylate
Biodegradability	**Value:** 90 % **Method:** OECD 301C **Test period:** > 28 day(s)

12.3. Bioaccumulative potential

Bioaccumulation, comments	No data available on bioaccumulation.

12.4. Mobility in soil

Mobility	No data recorded.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

12.7. Other adverse effects

Additional ecological information	No recommendation given.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

EWC waste code	EWC waste code: 070604 other organicsolvents, washing liquids and mother liquors Classified as hazardous waste: Yes
EWL packing	EWC waste code: 150102 plasticpackaging Classified as hazardous waste: No
Other information	150102: The packaging must be empty (drop-free, when inverted).

SECTION 14: Transport information

Dangerous goods	No

14.1. UN number

Comments	Not relevant.

14.2. UN proper shipping name

Comments	Not relevant.

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14.3. Transport hazard class(es)

Comments	Not relevant.

14.4. Packing group

Comments	Not relevant.

14.5. Environmental hazards

ADR/RID/ADN	Not relevant.

14.6. Special precautions for user

Special safety precautions for user	Not relevant.

14.7. Maritime transport in bulk according to IMO instruments

Pollution category	Not relevant.

SECTION 15: Regulatory information

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

Legislation and regulations	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. 453/2010/EU amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, uthorisation and Restriction of Chemicals (REACH) Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

15.2. Chemical safety assessment

Chemical safety assessment	Not relevant.
Exposure scenario comments	Not relevant.

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation.
Additional information	Duo Clean is registered at NSF, nonfood compounds that may be used in and

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	around food processing areas. Category code: A1 NSF registration no. 147697 For further information please turn to "www.nsf.org". A1: This product is approved for use as an all-purpose cleaner on all surfaces in and around food processing areas, where it cannot come into direct contact with food.
Revision justification	Change in composition of the mixture (addition, deletion, substitution of component).
Information added, deleted or revised	Change to Sections: P3 P8 P9 P11
Version	9
Prepared by	Nina Mandahl

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