SAFETY DATA SHEET

VK KALDAVFETTING

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 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	05.10.2020

1.1. Product identifier

Product name	VK KALDAVFETTING

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

Product group	Cleaning agent.
Use of the substance / preparation	Degreasing agent Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Producer

Company name	Vest Kontakt AS
Office address	Stongsvingen 10
Postal address	POSTBOKS 174
Postcode	4296
City	ÅKREHAMN
Country	Norge
Telephone number	+47 52811000
Email	post@vestkontakt.no
Website	www.vestkontakt.no
Enterprise No.	939 866 558
Contact person	Magnus Dahle

1.4. Emergency telephone number

Emergency telephone	Telephone number: +47 22 59 13 00 Description: Norwegian Poison Information Center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Eye Dam. 1; H318 Skin Irrit. 2; H315
Substance / mixture hazardous properties	Causes serious eye damage. Causes skin irritation.

2.2. Label elements

Hazard pictograms (CLP)

Composition on the label	Alcoholetoxylate, Alkylglucoside, Sodium metasilicate, pentahydrate
Signal word	Danger
Hazard statements	H318 Causes serious eye damage. H315 Causes skin irritation.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P264 Wash hands thoroughly after handling. P280 Wear protective gloves / protective clothing / eye protection / face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and 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 or doctor / physician.
Supplemental label information	Content according to Regulation (EC) No 648/2004 on detergents: 5-15% non-ionic surfactants.

2.3. Other hazards

PBT / vPvB	PBT/vPvB assessment has not been performed.
Other hazards	In case of spills, beware of slippery floors and surfaces.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Alcoholetoxylate	CAS No.: 160875-66-1	Acute tox. 4; H302 Eye Dam. 1; H318	5 – 10 %	
Diethylene glycol monobutyl ether	CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8	Eye Irrit. 2; H319;	1 – 5 %	
Alkylglucoside	CAS No.: 54549-24-5 EC No.: 259-217-6	Eye Dam. 1; H318	1 – 5 %	
Sodium metasilicate, pentahydrate	CAS No.: 10213-79-3 EC No.: 229-912-9	Acute tox. 4; H302 Skin Corr 1B; H314 STOT SE3; H335	1 < 5 %	

Tetrapotassium pyrophosphate	CAS No.: 7320-34-5 EC No.: 230-785-7		0 – 1 %
Citric acid, monohydrate	CAS No.: 5949-29-1	Eye Irrit. 2; H319	0 – 1 %
Content according to Regulation (EC) No 648/ 2004 on detergents:			
Non-ionic surfactants			5 – 15 %

Description of the mixture	Water based solution.
Substance comments	See section 16 for explanation of hazard statements (H) listed above. For substances without REACH registration number in section 3.2, no information has been provided by the subcontractor or manufacturer.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4. In case of unconsciousness or severe accidents, call 112.
Inhalation	Fresh air and rest. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Contact physician if irritation persists.
Eye contact	Promptly rinse eyes with plenty of water (tempered at 20-30°C) for at least 30 minutes. Remove any contact lenses. Hold the eyelids apart. Continue flushing during transport to hospital. Transport to physician. Keep on flushing during transport.
Ingestion	Rinse mouth thoroughly. Drink a few glasses of water or milk. Do not induce vomiting. Get medical attention if any discomfort continues.

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

Acute symptoms and effects	Skin contact: The chemical irritates the skin and can cause itching, burning and redness. Eye contact: Risk of serious damage to eyes. The chemical is corrosive to the eyes and may cause permanent damage. Symptoms such as strong burning, tearing/watering, redness and blurred vision may occur. In severe cases, there is a risk of visual damage/blindness.

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

Other information	Treat symptomatically. No specific information from the manufacturer.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Improper extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is not classified as flammable.

Hazardous combustion products	May include, but is not limited to: Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other information	Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Ensure adequate ventilation. Use protective equipment as referred to in section 8. Avoid contact with skin and eyes. Beware! The product is corrosive.

6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.

6.3. Methods and material for containment and cleaning up

Clean up	Absorb in vermiculite, dry sand or earth and place into containers. Collect in a suitable container and dispose as hazardous waste according to section 13. Wash the contaminated surface with detergent and water.

6.4. Reference to other sections

Other instructions	See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Provide adequate ventilation. Avoid inhalation of aerosols and contact with skin and eyes. Use protective equipment as referred to in section 8. Risk for slippery floors and tools if spilled out. Beware! The product is corrosive.

Protective safety measures

Advice on general occupational hygiene	Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a dry and cool place.
Conditions to avoid	Protect from sunlight. Frost.

Conditions for safe storage

Advice on storage compatability	Keep away from food and drink.

7.3. Specific end use(s)

Specific use(s)	See section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
2-(2-butoxyethoxy) ethanol	CAS No.: 112-34-5	Limit value (8 h) : 10 ppm Limit value (8 h) : 68 mg/mg³	

Control parameters comments	Explanation of the notations: E = The EU has adopted a recommended limit value for the substance. References (laws/regulations): Norwegian regulation on exposure limits: "FOR-2011-12-06-1358 Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks– og grenseverdier)".

8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent exposure	Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment. A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipment's suitability and durability will depend on application.

Eye / face protection

Eye protection equipment	Description: Wear tight-fitting goggles or face shield. Reference to relevant standard: EN 166 (Personal eye-protection. Specifications).
Additional eye protection measures	Eye wash facilities shall be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.

Hand protection

Suitable gloves type	Polyvinyl chloride (PVC).
Breakthrough time	Value: > 480 minute(s)
Thickness of glove material	Value: 0,4 mm
Hand protection equipment	Description: Use protective gloves that are suitable for the application. The recommended material of gloves is recommended after a study of the single

	components in the chemical. The gloves abilities may vary among the different glove manufacturers. Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN 420 (Protective gloves – General requirements and test methods).
Additional hand protection measures	Replace gloves if signs of wear and tear.

Skin protection

Recommended protective clothing	Description: Wear appropriate protective clothing to protect against skin contact.
Additional skin protection measures	Emergency shower should be available at the workplace.

Respiratory protection

Recommended respiratory protection	Description: In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2). Reference to relevant standard: EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking). EN 143 (Respiratory protective devices – Particle filters – Requirements, testing, marking).

Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid.
Colour	Tan.
Odour	Slight.
Odour limit	Comments: Not determined.
pH	Status: In delivery state Value: 11,4 Method: Concentrated
Melting point / melting range	Value: 0 °C
Boiling point / boiling range	Value: 100 °C
Flash point	Comments: Not classified as flammable, does not sustain combustion.
Evaporation rate	Value: < 0,1 Comments: Butyl acetate = 1
Flammability (solid, gas)	Not relevant, see flash point.
Explosion limit	Comments: The product is not explosive.
Vapour pressure	Comments: Not relevant.
Vapour density	Comments: No data recorded.

Relative density	Value: ~ 1,07
Density	Value: 1050 kg/m³ Comments: Applies to VK KALDAVFETTING
Solubility	Medium: Water Comments: Easily soluble.
Partition coefficient: n-octanol/ water	Value: 1,62 Comments: Log Pow Applies to VK Kaldavfetting
Spontaneous combustability	Comments: Not relevant.
Decomposition temperature	Comments: Not determined.
Viscosity	Value: 6,49 mPa.s Comments: Applies to CAS-nr.: 112-34-5 (Literature value) Temperature: 20 °C Type: Dynamic
Explosive properties	Not classified as an explosive.
Oxidising properties	Not classified as oxidizing.

9.2. Other information

Other physical and chemical properties

Comments	No further information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Under normal condtions and use there are not expected any reactivity hazards for this chemical.

10.2. Chemical stability

Stability	The chemical is stable under normal conditions of storage and use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Arise in contact with incompatible materials (section 10.5).

10.4. Conditions to avoid

Conditions to avoid	Avoid frost. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid	Not specified by the manufacturer.

10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.

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	Irritating to skin.
Assessment of eye damage or irritation, classification	Causes serious eye damage.
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.
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.

Symptoms of exposure

In case of ingestion	No specific information from the manufacturer.
In case of skin contact	The chemical irritates the skin and can cause itching, burning and redness.
In case of inhalation	No specific information from the manufacturer.
In case of eye contact	Risk of serious damage to eyes. The chemical is corrosive to the eyes and may cause permanent damage. Symptoms such as strong burning, tearing/watering, redness and blurred vision may occur. In severe cases, there is a risk of visual damage/blindness.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, algae	Comments: Value: 18,9 mg/l Testmethod: Acute alge (EC50) Alge art: Skeletonema costatum Varighet: 72 t Test referanse: Applies to VK DELEVASK.

	Value is provided by the manufacturer. Value: > 1000 mg/l Testmethod: Acute alge (EC50) Alge art: Skeletonema costatum Test time: 48 t Test referanse: Applies to CAS 112-34-5. Value is provided by the manufacturer. Value: > 74 mg/l Testmethod: Acute alge (EC50) Alge art: Skeletonema costatum Test time: 72 t Test referanse: Applies to CAS 54549-24-5. Value is provided by the manufactuere. Value: > 0,5 mg/l Testmethod: Acute alge (EC50) Alge art: Skeletonema costatum Test time: 72 t Test referanse: Applies to CAS 160875-66-1. Value is provided by the manufacturer.
Other ecotoxicological information, crustaceans	Value: 70 mg/l Testmethod: Acute copepod (LC50) Art: Acartia tonsa Test time: 48 t Test referanse: Applies to VK delevask. Values is provided by the manufacturer. Value: 4 mg/l Testmethod: Acute copepod (LC50) Art: Acartia tonsa Test time: 48 t Test referanse: Applies to CAS 160875-66-1. Value is provided by the manufacturer. Value: 1220 mg/l Testmethod: Acute copepod (LC50) Art: Acartia tonsa Test time: 48 t Test referanse: Applies to CAS 112-34-5. Value is provided by the manufacturer. Value: 530 mg/l Testmethod: Acutet copepod (LC50) Art: Acartia tonsa Test time: 48 t Test referanse: Applies to 54549-24-5. Values is provided by the manufacturer.
Ecotoxicity	The chemical is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills may be potentially hazardous.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	2-(2-butoxyetosy)ethanol: 70 % (20 days). Alcoholetoxylate: 70 % (20 days). Alkylglucoside: 70 % (10 days).

	Readily biodegradable: 70 % (20 days) OECD 306: are biodegradable The surfactant/surfactants contained in this preparation meet the criteria for biodegradation of Regulation (EC) no. 648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulation, comments	Log Pow: 1,62. Applies to VK DELEVASK. Log Pow: < 1,4. Applies to [Value]. CAS-no. 112-34-5 Log Pow: 1,75. Applies to CAS-nr.: 54549-24-5. Log Pow: 2,4. Applies to CAS-nr.: 160875-66-1. No data available on bioaccumulation.

12.4. Mobility in soil

Mobility	Soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	PBT/vPvB assessment has not been performed.

12.6. Other adverse effects

Additional ecological information	Do not allow to enter into sewer, water system or soil. The chemical is HOCNF tested.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intented as a guide. The code must be chosen by the user, if the use differs from the one mentioned below. Empty and cleaned packages may be disposed of or recycled as household waste.
EWC waste code	EWC waste code: 070601 aqueous washing liquids and mother liquors Classified as hazardous waste: Yes
NORSAS	7133 Rengjøringsmidler
Other information	Do not empty into drains.

SECTION 14: Transport information

Dangerous goods	No

14.1. UN number

Comments	Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

14.2. UN proper shipping name

Comments	Not relevant.

14.3. Transport hazard class(es)

Comments	Not relevant.

14.4. Packing group

Comments	Not relevant.

14.5. Environmental hazards

IMDG Marine pollutant	No

14.6. Special precautions for user

Special safety precautions for user	Not relevant.

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

Transport in bulk (yes/no)	No

SECTION 15: Regulatory information

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

References (laws/regulations)	Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments. Norwegian regulations on waste. no. 930/2004, from the Ministry of Environment. The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009. FOR 2004-06-01 No. 922: Norwegian regulation regarding restrictions on the use of health-hazardous chemicals and other products (Produktforskriften), as amended; § § 2-12, 2-14 Detergents.
Declaration No.	21370

15.2. Chemical safety assessment

Chemical safety assessment performed	No

SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
List of relevant H-phrases (Section 2 and 3)	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.
Key literature references and sources for data	Suppliers Safety data sheet dated: 14.01.2016

Abbreviations and acronyms used	EWC: European Waste Code (a code from the EU's common classification system for waste) ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail IMDG: The International Maritime Dangerous Goods Code ICAO-TI: International Civil Aviation Organization - Technical Instructions for the Safe Transport of Dangerous Goods by Air EC50: The effective concentration of substance that causes 50% of the maximum response LC50: Median concentration lethal to 50% of a test population. LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%. IC50: The concentration of compound that results in 50% inhibition of a biological or biochemical function. PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative HOCNF: Harmonised Offshore Chemical Notification Format HOCNF: Harmonised Offshore Chemical Notification Format
Information added, deleted or revised	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.
Checking quality of information	This SDS is quality controlled by Kiwa Teknologisk Institutt in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2015.
Version	1
Prepared by	Kiwa Teknologisk Institutt as, Norway by Sharon M. Løver