

1. IDENTIFICATION OF THE SUBSTANCE

1.1. Product identifier

Trade name VXL® solve
Product type Cleansing agents, alkaline

1.2. Recommended use Use at work place.

1.3. Company

Manufacturer: Dalli-Werke GmbH & Co. KG
Zweifaller Straße 120
D-52224 Stolberg

Telephone +49 2402 8900

Distributor: BellandTechnology AG
Kühlenfelser Str. 47
D-91278 Pottenstein

Telephone +49 9243 70148-14

Fax +49 9243 7014 820

E-Mail info@bellandtechnology.de

1.4. Responsible Department Rechtliche Produktsicherheit
Health Safety Environment (HSE)
dalli-msds@dalli-group.com

1.5. Emergency telephone number +44-870-870-6006266
National Poisons Information Service Birmingham
(Birmingham Centre)
West Midlands Poison Information Unit
City Hospital
Dudley Road, Birmingham, West Midlands, B 18 7QH

2. IDENTIFICATION OF HAZARDS

2.1. Classification

Classification (REGULATION (EC) No. 1272/2008)

REGULATION (EC) No. 1272/2008

Skin irritation, category 2 H 315: Causes skin irritation. (Calculation method)

REGULATION (EC) No. 1272/2008

Eye irritation, category 2 H 319: Causes serious eye irritation. (Calculation method)

REGULATION (EC) No. 1272/2008

Specific toxicity,
respiratory tract category 3 H 335: May cause respiratory irritation. (Calculation method)

2.2. Labeling elements

Labeling (REGULATION (EC) No. 1272/2008)

REGULATION (EC) No. 1272/2008

Hazard pictograms:



Signal word:

Warning

Hazard statements:

H315: Causes skin irritation.

H319: Causes eye irritation.

H335: May cause respiratory irritation.

Precautionary statements:

Prevention:

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P280: Wear protective gloves/ eye protection/ face protection.

Response:

P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.

P337 + P213: If eye irritation persists: Get medical advice/ attention.

Storage:

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501: Dispose of contents/ container to an approved waste disposal plant.

Hazardous components, which must be listed in the label: POTASSIUM CARBONATE

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1 % or higher.

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

3. COMPOSITION/INFORMATION OF INGREDIENTS**3.1. Mixtures**

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
SODIUM CARBONATE	497-19-8 207-838-8 01-2119485498-19	Eye Irrit. 2; H319	>=30 - <50
POTASSIUM CARBONATE	584-08-07 209-529-3 01-2119457026-42	Skin Corr. 2; H315 Eye Dam. 2; H319 STOT SE 3; H335	>=30 - <50
CITRIC ACID	77-92-9 201-069-1 01-2119457026-42	Eye Irrit. 2; H319	>=10 - <20
SODIUM HYDROXIDE	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	Met. Corr 1; H290 Skin Corr. 1A; H314	>= 1 - < 2

For explanation of abbreviations see section 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

General information:	The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
After inhalation:	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
After eye contact:	Protect unharmed eye. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
After skin contact:	Wash off with soap and plenty of water. If skin irritation persists, call a physician.
After ingestion:	Do NOT induce vomiting. Do NOT give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If accidentally swallowed obtain immediate medical attention. Gently wipe or rinse the inside of the mouth with water.

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

Risks:	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
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4.3. Indication of any immediate medical attention and special treatment needed

Treatment:	For specialist advice physicians should contact the Poisons Information Service.
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5. FREFIGHTING MEASURES

5.1. Extinguishing media

Use extinguishing measures that are appropriate to local circumstances.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: None

5.3. Advice to firefighters

Special protective equipment for firefighters:	Wear self-contained breathing apparatus.
Further information:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Methods and material for containment and cleaning up

Sweep up and shovel.

6.3. Environmental precautions

Do not flush into surface water or sanitary sewer system. No special environmental precautions required.

6.4. Reference to other sections

For disposal considerations see section 13, for personal protection see section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling: For personal protection see section 8.
No special handling advice required.
Do not get in eyes, mouth or on skin.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Hygiene measures: When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Store at room temperature in the original container.

Advice on common storage: No materials to be especially mentioned.

Other data: No decomposition if stored and allied as directed

7.3. Specific use(s)

Specific end use(s): No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Occupational exposure limits

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006.

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m ³	GB EH40

Substance name	End Use	Exposure routes	Potential health effects	Value
SODIUM CARBONATE	Workers	Inhalation	Long-term local effects	10 mg/m ³
	Consumers	Inhalation	Acute local effects	10 mg/m ³
SODIUM HYDROXIDE	Workers	Inhalation	Long-term local effects	1 mg/m ³
	Consumers	Inhalation	Long-term local effects	1 mg/m ³
	Workers	Inhalation	Acute local effects	2,0 mg/m ³

8.2. Personal protective equipment

Hand protection: Nitrile rubber.
 Eye protection: Safety glasses.
 Skin and body protection: Not required.
 Remarks: Not required.
 Respiratory protection: Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Fundamental physical and chemical properties

Form: Powder
 Color: White
 Odor: Characteristic
 Odor Threshold: Not relevant.
 pH: 10 – 11; Concentration: ca. 10 g/l
 Melting point/range: No data available.
 Boiling point/range: No data available.

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Version:V4

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Flash point:	Not applicable. Other information: Will not burn.
Evaporation rate:	Not relevant.
Upper explosion limit:	Not determined.
Lower explosion limit:	Not determined.
Vapor pressure:	No data available.
Relative vapor density:	No data available.
Density:	Not applicable.
Bulk density:	ca. 700 kg/m ³
Solubility in water:	Soluble.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	No data available.
Viscosity	
Viscosity, dynamic:	Not applicable.
Viscosity, kinematic:	Not applicable.
Explosive properties:	Not applicable.
Oxidizing properties:	The substance or mixture is not classified as oxidizing.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage conditions. No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Hazardous reactions: No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Conditions to avoid: Exposure to moisture.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION**11.1. Acute toxicity**

Not classified based on available information.

Product:

Acute oral toxicity: Acute toxicity estimate: >2.000 mg/kg

Components:**SODIUM CARBONATE**

Acute oral toxicity: LD50 Oral (Rat): 2.800 mg/kg

Acute inhalation toxicity: LC50 (Rat): 2,3 mg/l

Exposure time: 2 h

Acute dermal toxicity: LD50 Dermal (Rabbit): > 2.000 mg/kg

POTASSIUM CARBONATE

Acute oral toxicity: LD50 Oral (Rat): 2.000 mg/kg

CITRIC ACID

Acute oral toxicity: LD50 Oral (Rat): 3.000 mg/kg

SODIUM HYDROXIDE

Acute oral toxicity: LD50 Oral (Rat): 2.000 mg/kg

11.2. Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: Irritating to skin and mucous membranes.

Revision date:25.06.2021

Version:V4

date of print:25.06.2021

Components:**SODIUM CARBONATE:**

Species: Rabbit
Result: No skin irritation.

Species: Human skin
Result: No skin irritation.

CITRIC ACID:

Species: Rabbit
Result: No skin irritation.

11.3. Serious eye damage/eye irritation.

Causes serious eye irritation.

Product:

Remarks: Eye irritation

Components:**CITRIC ACID:**

Species: Rabbit
Results: Eye irritation.

11.4. Skin sensitization

Not classified based on available information.

11.5. Respiratory sensitization

Not classified based on available information.

Product:

Remarks: Not applicable.

11.6. Germ cell mutagenicity

Not classified based on available information.

Revision date:25.06.2021

Version:V4

date of print:25.06.2021

Components:**SODIUM CARBONATE:**

Genotoxicity in vitro:

Test Type: in vitro assay

Result: negative

11.7. Carcinogenicity

Not classified based on available information.

11.8. Reproductive toxicity

Not classified based on available information.

11.9. STOT – single exposure

May cause respiratory irritation.

11.10. STOT – Repeated exposure

Not classified based on available information.

11.11. Aspiration toxicity

Not classified based on available information.

11.12. Further Information**Product:**

Remarks: Health injuries are not known or expected under normal use.

12. ECOLOGICAL INFORMATION**12.1. Toxicity****Components:****SODIUM CARBONATE:**

Toxicity to fish:

LC50 (Lepomis macrochirus (Bluegill sunfish)):
300 mg/l
Exposure time: 96 hToxicity to daphnia and other
aquatic invertebrates:EC50 (Ceriodaphnia dubia (water flea)): 200-227 mg/l
Exposure time: 48 h

SODIUM HYDROXIDE:

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)):
45,4 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (water flea)): 76 mg/l
Exposure time: 24 h

12.2. Persistence and degradability**Product:**

Biodegradability: Remarks: The surfactant(s) contained in this mixture 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 of a detergent manufacturer.

12.3. Bio accumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment**Product:**

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1 or higher.

12.6. Other adverse effects:**Product:**

Additional ecological information: There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Product:	Offer surplus and non-recyclable solutions to a licensed disposal company. In accordance with local and national regulations.
Contaminated packaging:	Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling disposal.
Waste Code:	The waste is hazardous waste pursuant to EU legislation. The waste code is to be defined in accordance with national legislation and the intended purpose.

14. TRANSPORT INFORMATION

14.1. UN number

Not regulated as a dangerous good.

14.2. UN proper shipping name

Not regulated as a dangerous good.

14.3. Transport hazard class(es)

Not regulated as a dangerous good.

14.4. Packing group

Not regulated as a dangerous good.

14.5. Environmental hazards

Not regulated as a dangerous good.

14.6. Special precautions for user

Remarks: Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

15. REGULATORY INFORMATION

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

REACH – Candidate List of Substances of Very High Concern For Authorisation (Article 59) This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable

TA Luft List (Germany) *Total dust:*
Not applicable.
Inorganic substances in powdered form:
Not applicable.
Inorganic substances in vapor or gaseous form:

Not applicable.
Organic substances:
Not applicable.
Carcinogenic substances:
Not applicable.
Mutagenic:
Not applicable.
Toxic in reproduction:
Not applicable.

Occupational Illnesses: (R-461-3): Not applicable.

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

15.2. Chemical safety assessment

There is no data available for this product.

16. FURTHER INFORMATION

16.1. Full text of H-statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

16.2. Classification of the mixture and classification procedure

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
STOT SE 3	H335	Calculation method

16.3. Full text of other abbreviations

Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
STOT SE	Specific target organ toxicity – single

AND – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; *ADR* – European Agreement concerning the International Carriage of Dangerous Goods by Road; *AICS* – Australian Inventory of Chemical Substances; *ASTM* – American Society for the Testing of Materials; *bw* – Body weight; *CLP* – Classification Labelling Packaging Regulation: Regulation (EC) No 1272/2008; *CMR* – Carcinogen, Mutagen or Reproductive Toxicant; *DIN* – Standard of the German Institute for Standardization; *DSL* – Domestic Substances List (Canada); *ECHA* – European Chemicals Agency; *EC-Number* – European Community number; *ECx* – Concentration associated with x % response; *ELx* – Loading rate associated with x % response; *EmS* – Emergency Schedule; *ENCS* – Existing and New Chemical Substances (Japan); *ErCx* – Concentration associated with x % growth rate response; *GHS* – Globally Harmonized System; *GLP* – Good Laboratory Practice; *IARC* – International Agency for Research on Cancer; *IATA* – International Air Transport Association; *IBC* – International Code for the Construction and Equipment of ships carrying dangerous chemicals in bulk; *IC50* – Half maximal inhibitory concentration; *ICAO* – International Civil Aviation Organization; *IECSC* – Inventory of Existing Chemical Substances in China; *IMDG* – International Maritime Dangerous Goods; *IMO* – International Maritime Organization; *ISHL* – Industrial Safety and Health Law (Japan); *ISO* – International Organization for Standardization; *KECI* – Korea Existing Chemicals inventory; *LC50* – Lethal Concentration to 50 % of a test population; *LD50* – Lethal Dose to 50 % of a test population (Median Lethal Dose); *MARPOL* – International Convention for the Prevention of Pollution from Ships; *n.o.s.* – Not Otherwise Specified; *NO(A)EC* – No Observed (Adverse) Effect Concentration; *NO(A)EL* – No Observed (Adverse) Effect Level; *NOELR* – No Observable Effect Loading Rate; *NZIoC* – New Zealand Inventory of Chemicals; *OECD* – Organization for Economic Cooperation and Development; *OPPTS* – Office of Chemical Safety and Pollution Prevention; *PBT* – Persistent, Bioaccumulative and Toxic substance; *PICCS* – Philippines Inventory of Chemicals and Chemical Substances; *(Q)SAR* – (Quantitative) Structure Activity Relationship; *REACH* – Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; *RID* – Regulations concerning the International Carriage of Dangerous Goods by Rail; *SADT* – Self-Accelerating Decomposition Temperature; *SDS* – Safety Data Sheet; *TCSI* – Taiwan Chemical Substance Inventory; *TRGS* – Technical Rule for Hazardous Substances; *TSCA* – Toxic Substances Control Act (United States); *UN* – United Nations; *vPvB* – Very Persistent and Very Bioaccumulative

17. OTHER INFORMATION

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.

Responsible Department

Rechtliche Produktsicherheit
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