

# Vanulan

Version number: 7.0  
Issued: 2021-09-09  
Replaces SDS: Rev. 6; 2020-01-07



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

### 1.1. Product identifier

**Trade name**

Vanulan

**UFI code**

W1HK-8CF7-966Q-QG05

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

**Relevant identified uses**

Hand dishwashing liquid for professional users.

**Not suitable for use in**

All other uses are discouraged.

### 1.3. Details of the supplier of the safety data sheet

**Supplier**

KLEEN PURGATIS GmbH

Street address

Dieselstraße 10  
32120 Hiddenhausen  
Germany

Telephone

+49 (0) 5223 9970-40

Email

info@kleen-purgatis.de

Fax

+49 (0) 5223 9970-195

Web site

www.kleenpurgatis.de

**Contact person**

Regulatory Affairs

**Email address**

info@budich.de

### 1.4. Emergency telephone number

+49 (0)551- 19240 (GIZ-Nord)

**Available outside office hours**

Yes

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

#### Classification

Skin irritation, hazard category 2

Eye irritation, hazard category 2

#### Hazard statements

H315, H319

#### Supplemental hazard statements

EUH208

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Warning

#### Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

#### Supplemental hazard statements

EUH208 Contains 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

#### 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.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 +P313 If skin irritation or rash occurs: Get medical advice/attention.

### 2.3. Other hazards

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3 500-234-8 01-2119488639-16-xxxx -	5 - <10%	Eye Dam. 1, Skin Irrit. 2, Aquatic Chronic 3	H315, H318, H412 - -	Eye Dam.1: C $\geq$ 10% Eye Irrit.2: 5% $\leq$ C<10%
Alkyl dimethyl aminoxide	97862-59-4 931-296-8 01-2119488533-30-xxxx -	1 - <5%	Eye Dam. 1, Aquatic Chronic 3	H318, H412 - -	Eye Dam. 1; H318: C > 10% Eye Irrit. 2; H319: 4 % < C $\leq$ 10 %

#### **Substance additional information**

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### **Description of first aid measures**

First responders: Pay attention to self-protection.

#### **Inhalation**

Not applicable.

#### **Skin contact**

If skin irritation persists, call a physician.

#### **Eye contact**

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

#### **Ingestion**

Do not induce vomiting. Drink water. Call physician immediately.

#### **Information for doctors**

Show this safety data sheet to the doctor in attendance.

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

#### **Inhalation**

Not applicable.

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### **Skin contact**

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

### **Eye contact**

Causes eye irritation. Cloudy / blurred field of vision / lachrymation.

### **Ingestion**

Gastrointestinal discomfort, vomiting, nausea

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

Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. water spray, extinguishing powder, foam or carbon dioxide.

#### **Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

### **5.2. Special hazards arising from the substance or mixture**

Hazardous decomposition products formed under fire conditions.

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

In the event of fire, wear self contained breathing apparatus.

#### **Measures in case of fire**

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Forms slippery/greasy layers with water.

### **6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

### **6.3. Methods and material for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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## 6.4. Reference to other sections

- For information on storage and handling see section 7.
- For information on exposure and personal protective equipment, see Section 8.
- For information on incompatible materials, see Section 10.
- For information on disposal see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

No special precautions required.

#### General hygiene

- When using, do not eat, drink or smoke.
- Wash hands before breaks and immediately after handling the product.
- Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from food, drink and animal feeding stuffs. Store in a place accessible by authorized persons only.

Storage class according to TRGS 510: 12 (non-flammable liquids)

Storage temperature: 10°C to 40°C

### 7.3. Specific end use(s)

- PC35 - Washing and cleaning products (including solvent based products)
- See section 1.2: Hand dishwashing liquid

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3/500-234-8)	DNEL	Chronic (long term) Dermal	2750 mg/kg	Workers	Systemic
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3/500-234-8)	DNEL	Chronic (long term) Dermal	1650 mg/kg	Consumers	Systemic
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3/500-234-8)	DNEL	Chronic (long term) Oral	15 mg/kg	Consumers	Systemic
Alkyl dimethyl aminoxide (97862-59-4/931-296-8)	DNEL	Chronic (long term) Dermal	7.5 mg/kg	Consumers	Systemic
Alkyl dimethyl aminoxide (97862-59-4/931-296-8)	DNEL	Chronic (long term) Oral	7.5 mg/kg	Workers	Systemic

#### PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3/500-234-8)	PNEC	Freshwater	0.24 mg/l
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3/500-234-8)	PNEC	Sewage Treatment Plant	10000 mg/l
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3/500-234-8)	PNEC	Sediment (freshwater)	0.9168 mg/kg
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3/500-234-8)	PNEC	Soil	7.5 mg/kg
Alkyl dimethyl aminoxide (97862-59-4/931-296-8)	PNEC	Freshwater	0.0135 mg/l
Alkyl dimethyl aminoxide (97862-59-4/931-296-8)	PNEC	Sediment (freshwater)	1 mg/kg

### 8.2. Exposure controls

#### Appropriate engineering controls

Not required.

#### Eye / face protection

Not required under normal use

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## **Hand protection**

Not required under normal use  
Recommended preventive skin protection: protective gloves

## **Other skin protection**

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

## **Respiratory protection**

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

## **Thermal hazards**

Not applicable.

## **Environmental exposure controls**

No special environmental precautions required.

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

#### **Physical state**

Liquid

#### **Colour**

Yellow

#### **Odour**

Fresh scent

#### **Odour threshold**

Not determined for the mixture.

#### **Melting point / freezing point**

Not determined for the mixture.

#### **Boiling point or initial boiling point and boiling range**

Not determined for the mixture.

#### **Flammability**

Not applicable.

#### **Lower and upper explosion limit**

The product / mixture has no explosive properties.

#### **Flash point**

No data available

#### **Auto-ignition temperature**

Not determined for the mixture.

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## **Decomposition temperature**

Not determined for the mixture.

## **pH**

5,5

## **Kinematic viscosity**

No data available

## **Viscosity, dynamic**

14000 mPa · s

## **Method**

Brookfield, 20 °C

## **Solubility**

Water soluble

## **Water solubility**

completely miscible

## **Partition coefficient n-octanol/water**

Not determined for the mixture.

## **Vapour pressure**

Not determined for the mixture.

## **Density and/or relative density**

1.025 g/cm<sup>3</sup>

## **Relative density**

Not determined for the mixture.

## **Relative vapour density**

Not determined for the mixture.

## **Evaporation Rate**

Not determined for the mixture.

## **Explosive properties**

The product / mixture has no explosive properties.

## **Oxidising properties**

The product / mixture has no oxidizing properties.

## **VOC %**

< 3 %

## **Particle characteristics**

This product / mixture does not contain any nanomaterials or nanoforms as defined in Regulation (EC) 1907/2006.



According to Regulation (EC) No 1907/2006

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## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable at normal conditions

### 10.2. Chemical stability

The product is chemically stable.

### 10.3. Possibility of hazardous reactions

None under normal use.

### 10.4. Conditions to avoid

Protect from frost, heat and sunlight.

### 10.5. Incompatible materials

strong acids and strong bases . Oxidizing agent

### 10.6. Hazardous decomposition products

For information on combustion products, see Section 5.

Hazardous decomposition products formed under fire conditions.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### ***Acute toxicity***

Based on the available data, the classification criteria are not met.

Toxicology data for the components:

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3 / 500-234-8	LD50	4.100 mg/kg	Oral	rat	OECD 401
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3 / 500-234-8	LD50	> 2.000 mg/kg	Dermal	rat	OECD 402

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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline
Alkyl dimethyl aminoxide 97862-59-4	LD50	2.335 mg/kg	Oral	rat	-

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes eye irritation.

**Respiratory or skin sensitisation**

May produce an allergic reaction.

**Germ cell mutagenicity**

No data available

**Mutagenicity**

Based on the available data, the classification criteria are not met.

**Carcinogenicity**

Based on the available data, the classification criteria are not met.

**Reproductive toxicity**

Based on the available data, the classification criteria are not met.

**STOT-single exposure**

Based on the available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on the available data, the classification criteria are not met.

**Aspiration hazard**

Based on the available data, the classification criteria are not met.

**11.2. Information on other hazards****Endocrine disrupting properties**

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

**SECTION 12: Ecological information****12.1. Toxicity****Toxicity**

Toxicology data for the components :

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## Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3 / 500-234-8	LC50	7,1 mg/l	96h	Fisch	OECD 203
Alkyl dimethyl aminoxide 97862-59-4 / 931-296-8	LC50	1,1 mg/l	96h	Pimephales promelas (fathead minnow)	-

## Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3 / 500-234-8	EC50	7,5 mg/l	96h	algae	OECD 202

## Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3 / 500-234-8	EC50	7,2 mg/l	48h	Daphnia magna	OECD 201

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Species	Method / Guideline
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3 / 500-234-8	EC0	> 100 mg/l	Pseudomonas putida	DIN 38412

### Chronical toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Species
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3 / 500-234-8	NOEC	> 1 - 10 mg/l	Leuciscus idus
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3 / 500-234-8	NOEC	> 0,1 - 1 mg/l	Daphnia magna

## 12.2. Persistence and degradability

### Persistence and degradability

The surfactants contained in this mixture / product meet the requirements for biodegradability in accordance with Regulation (EC) No. 648/2004 on detergents.

## 12.3. Bioaccumulative potential

### Bioaccumulative potential

No information available

## 12.4. Mobility in soil

### Mobility

No information available

## 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

## 12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

## 12.7. Other adverse effects

### Other adverse effects

This product / mixture does not contain any substances within the meaning of Regulation (EC) No. 1005/2009 that deplete the ozone layer.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal considerations

Dispose of as hazardous waste in compliance with local and national regulations.

#### Packaging

Do not re-use empty containers. Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging : Dispose of as unused product.

Waste code	Description
20 01 29*	detergents containing hazardous substances

Please note - an asterisk (\*) next to a code denotes that it is HAZARDOUS WASTE.

## SECTION 14: Transport information

### 14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

### 14.2. UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

### 14.3. Transport hazard class(es)

#### Label

Not classified as dangerous in the meaning of transport regulations.

### 14.4. Packing group

Not classified as dangerous in the meaning of transport regulations.

### 14.5. Environmental hazards

#### Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

### 14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

### 14.7. Maritime transport in bulk according to IMO instruments

Not classified as dangerous in the meaning of transport regulations.

### Other

No data available

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## SECTION 15: Regulatory information

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

#### EU regulations

Regulation (EC) No. 648/2004 (detergents)

Ingredients according to Annex VII: 5% - 15% anionic surfactants, <5% amphoteric surfactants.

Contains: preservative agent (METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE), perfumes (CITRAL, LIMONENE).

Regulation (EC) No. 1272/2008 (CLP)

Regulation (EC) No. 1907/2006 (REACH)

Substances subject to authorization according to Annex XIV: No

Substance restrictions according to Annex XVII: No

Substances on the REACH candidate list (SVHC): No

Regulation (EU) No. 528/2012 (BPR)

Active ingredients: not applicable

Regulation (EU) 2019/1148 (explosives)

Restricted raw material according to Annex I: not applicable

Notifiable raw materials according to Annex II: not applicable

Directive 2011/65 / EU (ROHS 2)

Substance restrictions according to Annex II: not applicable

Regulation (EU) 2019/1021 (POP)

Persistent organic pollutants: not applicable

Directive 2012/18/EU (Seveso III)

Seveso hazard category: not applicable

#### National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

#### Other regulations, limitations and legal regulations

Take note of Dir 94/33/EC on the protection of young people at work.

### 15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

## SECTION 16: Other information

#### Changes to previous revision

Adaptation to the amending regulation (EU) 2020/878

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## **Abbreviations**

ADN - Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ADR - Accord relatif au transport international des marchandises Dangereuses par Route  
CAS - Chemical Abstract Service  
CLP - Classification, Labelling and Packaging  
DMEL - Derived Minimum Effect Level  
DNEL - Derived no effect level  
EC50 - Half maximal effective concentration 50%  
GHS - Globally Harmonised System  
IATA - International Air Transport Association  
IMDG - International Maritime Dangerous Goods  
LC50 - Lethal concentration 50%  
LD50 - Lethal dosis 50 %  
MARPOL - International Convention for the Prevention of Pollution from Ships  
PBT - Persistent, bioaccumulative and toxic substance  
PEC - Predicted Environmental Concentration  
PNEC - predicted no effect concentration  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID - Reglement concernant le transport international ferroviaire de marchandises Dangereuses  
SVHC - Substance of very high concern  
vPvB - Very persistent, very bioaccumulative substance

## **References to key literature and data sources**

REACH registration dossiers  
ECHA C&L - Inventory  
Safety data sheets from raw material suppliers

## **Evaluation methods for classification**

Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 [CLP]:  
Health hazards: calculation method

## **Phrase meaning**

Eye Dam. 1 - Serious eye damage, hazard category 1  
Skin Irrit. 2 - Skin irritation, hazard category 2  
Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

## **Other**

### **Additional information**

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

### **Manufacturer's notes**

Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.