

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

1.1 Product identifier

VÖLKELE V4S Cutting Gel

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

Use of the substance/mixture

Metal cutting gel

1.3 Details of the supplier of the safety data sheet

Company name: VÖLKELE GmbH
Street: Morsbachtalstraße 20
Place: DE-42855 Remscheid
Telephone: +49 (0) 2191 490112
E-Mail: info@voelkel.com
Internet: www.voelkel.com

1.4 Emergency number

Emergency telephone number (24h): +44 1235 239670 (en)

Further Information

Reserved for industrial and professional use.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) 1272/2008

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2 Label elements**Regulation (EC) No 1272/2008****Hazard statements****H412** Harmful to aquatic life with long lasting effects.**Precautionary statements****P273** Avoid release to the environment.**P501** Dispose of contents/container to an appropriate recycling or disposal facility.**Special labelling of certain mixtures****EUH208** Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts. May produce an allergic reaction.**2.3 Other hazards**

Avoid release to the environment.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

High slip hazard because of leaking or spilled product.

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Hazardous components**

CAS No.	Chemical Name	Quantity
	EC No. Index-No. REACH-No.	
	Classification (Regulation (EC) No 1272/2008)	
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	0.1 - < 1 %
	939-603-7	01-2119978241-36
	Skin Sens. 1; H317	
25307-17-9	2,2'-(Octadec-9-enylimino) bisethanol	0.1 - < 1 %
	246-807-3	01-2119510876-35
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H400 H410	

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No.	EC No.	Chemical Name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1471316-72-9	939-603-7	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	0.1 - < 1 %
		dermal: LD50 = 2000 mg/kg; oral: LD50 = 10000-20000 mg/kg	
25307-17-9	246-807-3	2,2'-(Octadec-9-enylimino) bisethanol	0.1 - < 1 %
		oral: LD50 = 1000-1587 mg/kg M acute; H400: M=10 M chron.; H410: M=1	

Further Information

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General Information

Seek medical attention if problems persist. No administration in cases of unconsciousness or cramps.

First aider: Pay attention to self-protection!

Symptoms can occur only after several hours.

After Inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty water and soap. Seek medical attention if problems persist.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty or flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion

Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Extinguishing powder. Carbon dioxide. Foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:

Carbon dioxide (CO₂)

Carbon Monoxide

Nitrogen oxides (NO_x)

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional Information

Collect contaminated fire extinguishing water separately. Do not allow entering drains of surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General Advice

Wear personal protection equipment. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

For non-emergency personnel

Special danger of slipping by leaking/ spilling product.

For emergency responders

Self-Protection of the first aider Remove affected person from the danger area and lay down. Do not leave affected person unattended. Remove all sources of ignition. Use appropriate respiratory protection.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Treat the recovered material as prescribed in the section on waste disposal.

Collect in closed containers for disposal.

6.3. Methods and material for containment and cleaning up.

For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Clean contaminated articles and floor according to the environmental legislation.

Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections

Disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid oil mist.

Use only in well-ventilated areas.

When using do not eat, drink or smoke.

Further information or handling

High slip hazard because of leaking or spilled product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep the packing dry and well-sealed to prevent contamination and absorption of humidity

Recommended storage temperature: 5-40 °C.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Maximum period of storage (time): 3

Further Information on storage conditions

Protect from sunlight. Store in a well-ventilated place.

7.3. Specific end use(s)

Observe technical data sheet. Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****DNEL/DMEL values**

CAS-No.	Substance			
DNEL Type	Exposure route	Effect	Value	
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts			
Worker DNEL, long-term	inhalation	systemic	35,26 mg/m ³	
Worker DNEL, long-term	dermal	systemic	25 mg/kg bw/day	
Consumer DNEL: long-term	inhalation	systemic	8,7 mg/m ³	
Consumer DNEL, long-term	dermal	Systemic	12,5 mg/kg bw/day	
Consumer DNEL, long-term	dermal	local	0,518 mg/cm ²	
Consumer DNEL, long-term	oral	systemic	2,5 mg/kg bw/day	
25307-17-9	2,2'-(Octadec-9-enylimino) bisethanol			
Worker DNEL; long-term	inhalation	systemic	2,96 mg/m ³	
Worker DNEL; long-term	dermal	systemic	0,42 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	0,522 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	0,15 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	0,15 mg/kg bw/day	

PNEC Values

CAS No.	Substance		
Environmental compartment			Value
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts		
Freshwater			0,1 mg/l
Marine water			0,1 mg/l
Freshwater sediment			45211 mg/kg
Marine sediment			45211 mg/kg
Micro-organisms in sewage treatment plants (STP)			1000 mg/l
Soil			36739 mg/kg
25307-17-9	2,2'-(Octadec-9-enylimino) bisethanol		
Freshwater			0,214 mg/l
Marine water			0,0214 mg/l
Freshwater sediment			1,692 mg/kg
Marine sediment			0,1692 mg/kg
Secondary poisoning			2 mg/kg
Micro-organisms in sewage treatment plants (STP)			1,5 mg/l
Soil			5,0 mg/kg

Additional advice on limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2 Exposure controls



Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection

EN 166

Hand protection

Protect skin by using skin protective cream. Wash hands before breaks and after work.

Skin protection

Chemical resistant safety shoes. Take off immediately all contaminated clothing.

Thorough skin-cleansing after handling the product. Set out skin protection guidelines.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Paste
Colour:	amber
Odour:	characteristic

	Test method
Changes in the physical state	
Boiling point or initial boiling point and boiling change	not determined
Flash point:	270 °C DIN ISO 2592
Lower explosion limits:	not determined
Upper explosion limits:	not determined
pH- Value	not applicable
Viscosity/ kinematic: (at 40 °C)	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1 g/cm ³ DIN EN ISO 12185

9.2 Other Information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 Chemical Stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Protect against heat.

10.5 Incompatible Materials

The following must be prevented: Oxidizing agents, strong, acid.

10.6 Hazardous decomposition products

Hazardous decomposition products: none.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself. Data apply to the main component.

Acute Toxicity

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

CAS-Nr.	Chemical Name				
	Exposure Route	Dose	Species	Source	Method
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts				
	oral	LD50 10000-20000 mg/kg	Rat	ECHA	
	dermal	LD50 mg/kg 2000	Rat	ECHA	
25307-17-9	2,2'-(Octadec-9-enylimino) bisethanol				
	oral	LD50 1000-1587mg/kg	Rat	ECHA	

Irritation and corrosivity

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

Sensitising effects

Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Additional information on tests

No risks worthy of mention. Practical experience. The statement is derived from the properties of the single components. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

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

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information**12.1 Toxicity**

The statement is derived from the properties of the components.

CAS-No.	Chemical Name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts					
	Acute fish toxicity	LC50 >100 mg/l	92 h	Oncorhynchus mykiss (Rainbow trout)		OECD 203
	Acute algae toxicity	ErC50 >1000 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna		OECD 202
	Algae toxicity	NOEC >1000 mg/l	3 d	Scenedesmus subspicatus		OECD 201
	Acute bacteria toxicity	EC50 >10000 mg/l				

12.2 Persistence and degradability

Product is not easily biodegradable.

CAS-No.	Chemical Name			
	Method	Value	d	Source
	Evaluation			
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts			
	RA_CAS 70024-69-0, OECD 301D	8,0%	28	
	Not easily bio-degradable (according to OECD-criteria).			

12.3 Bioaccumulative potential

No information available

Partition coefficient n-octanol/water

CAS-No.	Chemical name	Log Pow
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	6,91
25307-17-9	2,2'-(Octadec-9-enylimino) bisethanol	3,4

12.4 Mobility in soil

In delivery condition: viscous

12.5 Result of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

Avoid release to the environment

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Disposal recommendations**

Dispose of contents/container to an appropriate recycling or disposal facility. Dispose of waste according to applicable legislation.

List of Wastes Code- residues/unused products

120112

Wastes from shaping and physical and mechanical surface of treatment of metals and plastics.

List of Wastes Code- used products

120112

Wastes from shaping and physical and mechanical surface of treatment of metals and plastics.

Contaminated packaging

Completely emptied packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number:

Not a hazardous material with respect to transportation regulations.

14.2 UN proper shipping name:

Not a hazardous material with respect to transportation regulations.

14.3 Transport hazard class (es):

Not a hazardous material with respect to transportation regulations.

14.4 Packing group:

Not a hazardous material with respect to transportation regulations.

Other applicable information (land transport)

Not restricted

Inland waterways transport (ADN)

14.1 UN-Number or ID number:

Not a hazardous material with respect to transportation regulations

14.2 UN proper shipping name:

Not a hazardous material with respect to transportation regulations.

14.3 Transport hazard class (es):

Not a hazardous material with respect to transportation regulations.

14.4 Packing group:

Not a hazardous material with respect to transportation regulations.

Other applicable information (inland waterways transport)

Not restricted

Marine Transport (IMDG)

14.1 UN number or ID number:

Not a hazardous material with respect to transportation regulations.

14.2 UN proper shipping name:

Not a hazardous material with respect to transportation regulations.

14.3 Transport hazard class (es):

Not a hazardous material with respect to transportation regulations.

14.4 Packing group:

-

Other applicable information (marine transport)

Not restricted

Air transport (ICAO-TI/IATA-DGR)

14.1 UN number or ID number:

Not a hazardous material with respect to transportation regulations.

14.2 UN proper shipping name:

Not a hazardous material with respect to transportation regulations.

14.3 Transport hazard class (es):

Not a hazardous material with respect to transportation regulations.

14.4 Packing group:

-

Other applicable information (air transport)

Not restricted

14.5 Environmental hazards

Environmentally hazardous: No

14.6 Special precautions for user

Personal protection equipment: see section 8

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

According to EC directives or the corresponding national regulations the product does not have to be labelled.

National regulatory information

Water hazard class (D): 2- obviously hazardous to water

15.2 Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts

SECTION 16: Other information

Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

Material safety data sheet

VÖLKELE cutting gel V4S



Repr. – reproduction toxicity
Asp. Tox. – aspiration toxicity
Acute Tox. – acute toxicity
Aquatic Acute – acute aquatic toxicity
Aquatic Chronic – chronic aquatic toxicity
Eye Dam. – Eye damage / irritation
Eye Irrit. – Eye irritation
Skin Corr. – Corrosivity to the skin
Skin Irrit. – skin irritation
Skin Sens. – skin sensitivity
Resp. Sens. – respiratory sensitivity
STOT SE – specific target organ toxicity – single exposure
STOT RE – specific target organ toxicity – repeated exposure
VOC – Volatile Organic Compounds

Classification for mixture and used evaluation method according to regulation (EC) No. 1272/2008 (CLP)

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

Relevant H- und EUH statements (Number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., Calcium salts. May produce an allergic reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

creation date: 07.10.2022

VÖLKELE GmbH.
Morsbachtalstr. 20
42855 Remscheid
Germany

Tel. +49 (0) 2191-490112
Fax +49 (0) 2191-490125
E-Mail: info@voelkel.com
www.voelkel.com

Headquarter: Remscheid
Executive Board: Daniel Völkel, Peter Völkel, Sarah Joa-Völkel
Registered at Wuppertal HRB 11462
VAT Reg. No.: DE120774656