

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

1.1 Product identifier

VÖLKEL N3S Cutting Oil

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

Use of the substance/mixture

Metal cutting oil

Use advised against

No information available

1.3 Details of the supplier of the safety data sheet

Company name: VÖLKEL 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

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2 Label elements

Additional advice on labeling

The mixture is not classified as dangerous according to Regulation 1999/45/EC

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

None (according to Regulation (EC) No 1907/2006 (REACH)).

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

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

After contact with skin

Wash plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately with plenty of 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.

Other Information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

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

No informations available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

CAS-No.	Substance	ppm	mg/m ³	fib/cm ³	Cat.	Origin
122-39-4	Diphenylamine	-	10		TWA (8h)	
		-	20		STEL (15 min)	

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

Wear eye/face protection (EN 166).

Hand protection

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. Protect skin by using skin protective cream.

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:	liquid
Colour:	amber coloured
Odour:	characteristic

	Test method
Changes in the physical state	
Boiling point or initial boiling point and boiling change	not determined
Flash point:	180 °C DIN EN 57
Explosive properties	
No information available	
Lower explosion limits:	not determined
Upper explosion limits:	not determined
pH-Value:	not applicable
Viscosity/ kinematic: (at 40 °C)	30mm ² /s ASTM D 7042
Vapour pressure	not determined
Density (at 20°C)	0,90g/cm ³ EN ISO 12185

9.2 Other Information

Oxidizing properties

No information available.

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No known hazardous reactions.

10.2 Chemical Stability

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

10.3 Possibility of hazardous reactions

No hazardous reactions when handled and stored according to provisions.

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

Toxicokinetics, 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.

Irritation and corrosivity

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

Sensitising effects

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

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.

Material safety data sheet

VÖLKEL cutting oil N3S



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 single components. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC)

SECTION 12: Ecological information

12.1 Toxicity

The statement is derived from the properties of the components.

12.2 Persistence and degradability

The product is not easily biodegradable.

12.3 Bioaccumulative potential

No information available.

CAS-No.	Chemical name	Log Pow
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	6,91

12.4 Mobility in soil

In delivery condition: liquid

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. Collect in closed containers for disposal. Dispose of waste according to applicable legislation.

List of Wastes Code- residues/unused products

130205

Oil wastes and wastes of liquid fuels (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils, mineral-based non-chlorinated engine, gear and lubricating oils, hazardous waste

Contaminated packaging

Non-contaminated 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.

Material safety data sheet

VÖLKEL cutting oil N3S



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.

VÖLKEL 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

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

2004/42/EC (VOC) 0,3% (2,7g/l)

National regulatory information

Water hazard class (D): 1- slightly hazardous to water

Additional information

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

15.2 Chemical safety assessment

For this substance, a chemical safety assessment has not been carried out.

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

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

Material safety data sheet

VÖLKELE cutting oil N3S



STOT RE – specific target organ toxicity – repeated exposure

VOC – Volatile Organic Compounds

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