

EU Safety Data Sheet

in accordance with Regulation (EC) No. 1907/2006 (REACH)

Revised on: 24 January 2023

Version 1.9

TEK-1 POL

SILADENT

Print date: 12. September 2025

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

- 1.1 Product identifier**
Trade name: TEK-1 POL Diamond Polishing Paste
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Areas of use [SU]: SU22 Commercial uses: Public sector (administration, education, entertainment, services, crafts)
SU3 Industrial uses
Use of the substance/mixture: Polishing agent for the treatment of metallic surfaces Polishing agent
Uses advised against: Any use not in accordance with the intended purpose
- 1.3 Details of the supplier providing the safety data sheet**
Manufacturer/supplier: SILADENT Dr. Böhme & Schöps GmbH
Street / PO Box: Im Klei 26
Country code / Postcode / Town: DE - 38644 Goslar
Telephone: 0 53 21 / 37 79 – 0
Fax: 0 53 21 / 38 96 32
info@siladent.de or www.siladent.de
Information provided by: SILADENT Dr. Böhme & Schöps GmbH
- 1.4 Emergency number**
SILADENT Dr. Böhme & Schöps GmbH +49 (0) 53 21 / 37 79 - 0 (Mon-Fri 8:00 a.m.-4:00 p.m.)

SECTION 2: Potential hazards

- 2.1 Classification of the substance or mixture**
Classification according to Regulation (EC) No. 1272/2008: The product is not classified according to the CLP Regulation.
Additional information: This mixture does not contain any ingredients that are hazardous to health or the environment within the meaning of Directive 67/548/EEC or Regulation (EC) No. 1272/2008, have been assigned a Community workplace exposure limit, are classified as PBT/vPvB or are included in the candidate list.
- 2.2 Labelling elements**
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Special packaging requirements: None
Note: The mixture is classified as non-hazardous according to Regulation (EC) No. 1272/2008 [CLP].
Other labelling: None
- 2.3 Other hazards**
Possible harmful physical-chemical effects: No particular hazards to mention.
Possible harmful effects on humans and possible symptoms: This product does not contain any hazardous substances or mixtures that are intended to be released under normal or reasonably foreseeable conditions of use.
Possible harmful effects on the environment: Not determined
Other harmful effects: Not determined

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Results of PBT and vPvB assessment:

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

SECTION 3: Composition/information on ingredients

3.1 Substances: Not applicable

3. Mixtures

Hazardous ingredients

CAS No	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No. 1272/2008 [CLP]	SCL/ M/ ATE
		Aliphatic hydrocarbon	5 < 15% by weight		

Additional information:

This product does not contain any hazardous substances that must be listed in accordance with COMMISSION REGULATION (EU) No 2020/878, Annex II, Part A, 3.1/3.2 in Chapter 3.
The product does not contain any listed SVHC substances >0.1% in accordance with Regulation (EC) No. 1907/2006 § 59 (REACH).

SECTION 4: First aid measures

Description of first aid measures

4.1 General information:

In case of accident or if you feel unwell, seek medical advice immediately (show the operating instructions or safety data sheet if possible).

After inhalation:

Provide fresh air.
Move the affected person to fresh air and keep them warm and calm. Consult a doctor if the respiratory tract is irritated.

After skin contact:

In case of contact with skin, wash immediately with plenty of soap and water. Remove contaminated clothing.

After eye contact:

Rinse immediately and thoroughly with an eye wash or water. Consult an ophthalmologist if eye irritation occurs.

After swallowing:

Rinse mouth immediately and drink plenty of water. Rinse mouth thoroughly with water.
Do NOT induce vomiting.
If symptoms persist, consult a doctor.

4.2 Most important acute and delayed symptoms and effects

Symptoms:

No data available

Effects:

No data available

4.3 Indications for immediate medical attention or special treatment

Information for the doctor:

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Dry extinguishing agents
Carbon dioxide (CO₂)
Alcohol-resistant foam
Water mist

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Unsuitable extinguishing agents: Full water jet

Extinguishing media unsuitable for safety reasons:

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon monoxide
Nitrogen oxides (NO_x)
Carbon dioxide (CO₂)

5.3 Firefighting instructions

Special protective equipment for firefighting:

In case of fire: Wear self-contained breathing apparatus.

Additional information:

Adapt extinguishing measures to the surroundings.
Collect contaminated extinguishing water separately. Do not allow to enter drains or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personnel not trained for emergencies: Use personal protective equipment. Avoid dust formation.

Emergency responders: Personal protective equipment

6.2 Environmental protection measures: Do not allow to enter drains or waterways.

6.3 Methods and material for containment and cleaning

For containment: Dispose of collected material in accordance with regulations.

For cleaning: Collect mechanically and place in suitable containers for disposal.
Thoroughly clean contaminated objects and floors in accordance with environmental regulations.

6.4 Reference to other sections: Safe handling: see Section 7
Personal protective equipment: see Section 8
Disposal: see Section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautionary measures:

Wear personal protective equipment (see Section 8).
Measures to prevent aerosol and dust formation. Avoid dust formation.
Dusts may form explosive mixtures with air.

General industrial hygiene information:

Do not eat, drink, smoke or sniff at the workplace.
Contaminated clothing must be washed immediately. Keep away from food and drink.
Keep away from tobacco products.
Wash hands and face thoroughly before breaks and at the end of work, take a shower if necessary.

7.2 Conditions for safe storage, taking into account incompatibilities

Requirements for storage rooms and containers:

Keep containers tightly closed. Ensure adequate ventilation of storage rooms.

Storage class:

13 Non-combustible solids that cannot be assigned to any of the above storage classes

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Substances to be avoided:

Do not store together with:
Food and animal feed Oxidising agents

Further information on storage conditions:

Keep container tightly closed and store in a cool, well-ventilated place. Recommended storage temperature 20°C
Protect against:
Frost
UV radiation/sunlight Moisture

7.3 Specific end uses:

No data available

SECTION 8: Exposure controls/personal protective equipment

8.1 Parameters to be monitored:

No data available

8. Exposure controls and monitoring

Appropriate technical control measures

Technical measures to prevent exposure: Ensure adequate ventilation at the workplace.

Personal protective equipment

Eye/face protection:

Safety glasses with side protection DIN EN 166

Hand protection:

When handling chemical substances, only chemical protective gloves with CE marking including a four-digit test number may be worn.
Chemical protective gloves must be selected for the specific workplace depending on the concentration and quantity of hazardous substances.
It is recommended that the chemical resistance of the above-mentioned protective gloves for specific applications be clarified with the glove manufacturer.
Suitable glove type Suitable material:
FKM (fluorinated rubber)
Thickness of glove material 0.4 mm Breakthrough time: ≥ 8 h
Information on glove material [type, thickness, breakthrough time/wearing time, wetting strength]: Butyl, 0.5 mm, ≥ 8 h
If intended for reuse, clean gloves before removing and store in a well-ventilated area.
EN ISO 374
Check for leaks/impermeability before use.

Body protection:

Protective clothing
Lab coat

Respiratory protection:

Respiratory protection is required in the event of:
Inadequate ventilation Limit values exceeded Aerosol or mist formation Suitable respiratory protection equipment:
Particle filter device (DIN EN 143)
The respiratory protection filter class must be adapted to the maximum pollutant concentration (gas/vapour/aerosol/particles) that may arise when handling the product. If the concentration is exceeded, an insulating device must be used!
The wearing time limits according to GefStoffV in conjunction with the rules for the use of respiratory protective equipment (BGR 190) must be observed.

Limitation and monitoring of environmental exposure

Technical measures to prevent exposure: No data available

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Limitation and monitoring of consumer exposure

Measures relating to the use of the substance in articles:

No data available

Note:

No national limit values have been set to date.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

9.1 Physical state:	Solid
Colour:	pink
Smell:	Characteristic

Safety-related basic data

	value	Method	Source, comment
Odour threshold:	Not determined		
Melting point/freezing point:	44-46 °C		
Melting point/freezing point:	Softening point 46 °C		
Boiling point or initial boiling point and boiling range:	220-240 °C	Calculation method.	
Flammability:	Not determined		
Lower and upper explosion limits:	Not determined		
Flash point:	Not determined		
Ignition temperature:	Not determined		
Decomposition temperature:	Not determined		
pH value:	Not determined		
Viscosity:			cannot be determined
Solubility(ies):	Not determined		
Partition coefficient n-octanol/water (log value):			Not applicable
Vapour pressure:	(20°C)		Not determined
Density and/or relative density:	Density 1.5-1.8 g/cm ³		
Density and/or relative density:	Bulk density		Not determined
Relative vapour density:	Not determined		
Particle properties:	Not determined		

9.2 Other information

Other safety-related parameters

	Value	Method	Source, comment
Solid content:	70-72		
Solvent separation test:			Not applicable
Explosive properties:			The product is not explosive.
Fire-promoting properties:			No data available

Other information: None

SECTION 10: Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical stability:	The substance is chemically stable under the recommended storage, use and temperature conditions.
10.3 Possibility of hazardous reactions:	No data available

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- 10.4 Conditions to avoid:** Direct sunlight.
- 10.5 Incompatible materials:** Substances to avoid Oxidising agents Strong reducing agents.
- 10.6 Hazardous decomposition products:** In case of fire: Carbon monoxide and carbon dioxide. Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1 Information on hazard classes within the meaning of Regulation (EC) No. 1272/2008

Acute toxicity

Animal data

	Effective dose	Method, evaluation	Source, comment
Acute oral toxicity	Not determined		
Acute dermal toxicity	Not determined		
Acute inhalation toxicity	Not determined		

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

Corrosive/irritant effect on the skin

Animal data

Result/evaluation	Method	Source, comment
No data available		

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

Serious eye damage/irritation

Animal data

Result/evaluation	Method	Source, comment
No data available		

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

Respiratory sensitisation

Assessment/classification:

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

Skin sensitisation

Assessment/classification:

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

Additional information:

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

Germ cell mutagenicity

Assessment/classification:

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

Carcinogenicity

Assessment/classification:

No evidence of carcinogenicity in humans.

Reproductive toxicity

Assessment/classification:

No evidence of reproductive toxicity in humans.

Specific target organ toxicity after single exposure

STOT SE 1 and 2

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

Specific target organ toxicity after repeated exposure

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

Aspiration hazard

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

11.2 Information on other hazards

Other information: The mixture is classified as non-hazardous according to Regulation (EC) No. 1272/2008 [CLP].

SECTION 12: Environmental information

12 Toxicity

Aquatic toxicity

	Effective dose	Method, evaluation	Source, comment
Acute (short-term) fish toxicity	Not determined		
Chronic (long-term) fish toxicity	Not determined		
Acute (short-term) toxicity to crustaceans	Not determined		
Chronic (long-term) toxicity to aquatic invertebrates	Not determined		
Acute (short-term) toxicity to algae and cyanobacteria	Not determined		
Chronic (long-term) toxicity to algae and cyanobacteria	Not determined		
Toxicity to other aquatic plants/organisms	Not determined		
Toxicity to microorganisms	Not determined		

12.2 Persistence and degradability:

Assessment/classification: This information is not available.

12.3 Bioaccumulation potential:

Assessment/classification: No evidence of bioaccumulation potential.

12.4 Mobility in soil:

Assessment/classification: No data available:

12.5 Results of PBT and vPvB assessment:

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

12.6 Endocrine-disrupting properties:

No data available.

12.7 Other adverse effects:

Additional ecotoxicological information

Additional information: Do not allow product to enter the environment or sewage system in an uncontrolled manner. Product must not enter waterways.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EAK/AVV

Waste code Product	Waste designation
120199	Waste not otherwise specified

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Waste code Packaging

Waste designation

150106

Proper disposal / Product:

Disposal in accordance with official regulations.

Proper disposal / packaging:

Contaminated packaging must be treated in the same way as the substance.

Completely emptied packaging can be recycled.

Note:

Dispose of in accordance with official regulations.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	-	-	-
14.2 Proper UN shipping name	-	-	-
14.3	-	-	-
Transport hazard classes			
14.4 Packaging group	-	-	-
14.5 Environmental hazards	No	No	No
14.6 Special precautions for the user:	This information is not available.		
14.7 Bulk transport by sea in accordance with IMO instruments:	This information is not available.		
All modes of transport:	No dangerous goods as defined by transport regulations - ADR/RID (GGVSEB), IMDG (GGVSee), ICAO/IATA-DGR.		
Land transport (ADR/RID)			
Note:	Not classified for this mode of transport.		
Sea transport (IMDG)			
Note:	No hazardous material as defined by the regulations.		
Air transport (ICAO-TI / IATA-DGR)			
Note:	No hazardous material as defined by the regulations.		

SECTION 15: Legal provisions

15.1 Regulations on safety, health and environmental protection/specific legal provisions for the substance or mixture

EU regulations

Authorisations:

No data available

Restrictions on use:

No data available

Other EU regulations

To be noted:

No data available

National regulations

Technical Instructions on Air Quality Control (TA-Luft)

I

5.2.5: Organic substances, specified as total carbon at m >=

0.50 kg/h: Conc. 50 mg/m³

III 5.2.5. I: Organic substances at m >= 0.10 kg/h: Conc. 20 mg/m³

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Water hazard class (WGK): Slightly hazardous to water (WGK 1)

Information on occupational restrictions: None

Other regulations, restrictions and prohibitions: No data available

15.2 Substance safety assessment: Substance safety assessments for substances in this mixture have not been carried out.

SECTION 16: Other information

Revision notes: * Data changed from previous version.

Abbreviations and acronyms:

CLP:	Classification, labelling and packaging
REACH:	Registration, Evaluation and Authorisation of Chemicals
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
CAS:	Chemical Abstracts Service
DNEL:	Derived No-Effect Level
DMEL:	Derived No Effect Level
PNEC:	Predicted no-effect concentration
ATE:	Estimated acute toxicity
LC50:	Lethal (deadly) concentration 50%
LD50:	Lethal (fatal) dose 50%
LL50:	Lethal (deadly) level 50%
EL50:	Effective level 50%
EC50:	Effective concentration 50%
ErC50:	Effective concentration 50% (inhibition concentration) of the growth rate
NOEC:	concentration without observed effect
BCF:	Bioconcentration factor
PBT:	persistent, bioaccumulative and toxic
vPvB:	very persistent, very bioaccumulative
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID:	Rules for the transport of dangerous goods by rail
ADN:	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG:	Dangerous goods in international maritime transport
EmS:	Emergency plans
MFAG:	Guide to medical first aid measures in the event of accidents involving dangerous goods
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organisation
IBC:	Intermediate Bulk Container
VOC:	Volatile organic compounds
SVHC:	Substance of Very High Concern

Important references and data sources: European Chemicals Agency, <http://echa.europa.eu/>.
Manufacturer's data sheets

Training information: None

Additional information: Existing national and local laws regarding chemicals must be observed.
The information in this safety data sheet corresponds to our best knowledge at the time of printing. The information is intended to provide you with guidance on the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. If the product is mixed,

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blended or processed with other materials, or subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced, unless expressly stated otherwise.

Change notes:

* Data changed compared to the previous version