

Product name: Micro-Tec oil based diamond polishing paste
Document Nr.: SDS00129001599-01

Date: July 14th 2016
Version: 1.0

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

1.1. Product Identifier

| | |
|-----------|--|
| 29-001579 | Micro-Tec DP0.5 oil based diamond polishing paste 0.5µm |
| 29-001580 | Micro-Tec DP0.5 oil based diamond polishing paste 1µm |
| 29-001581 | Micro-Tec DP0.5 oil based diamond polishing paste 1.5µm |
| 29-001582 | Micro-Tec DP0.5 oil based diamond polishing paste 2.5µm |
| 29-001583 | Micro-Tec DP0.5 oil based diamond polishing paste 3.5µm |
| 29-001585 | Micro-Tec DP0.5 oil based diamond polishing paste 5µm |
| 29-001587 | Micro-Tec DP0.5 oil based diamond polishing paste 7µm |
| 29-001590 | Micro-Tec DP0.5 oil based diamond polishing paste 10µm |
| 29-001591 | Micro-Tec DP0.5 oil based diamond polishing paste 14µm |
| 29-001592 | Micro-Tec DP0.5 oil based diamond polishing paste 20µm |
| 29-001593 | Micro-Tec DP0.5 oil based diamond polishing paste 28µm |
| 29-001594 | Micro-Tec DP0.5 oil based diamond polishing paste 40µm |
| 29-001599 | Micro-Tec DP0.5 oil based diamond polishing paste set/12 0.5 to 40µm |

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

Polishing and cleaning hard materials to a mirror finish
Polishing of metallographic and petrographic samples and cross sections
Abrasive material

1.3. Details of the supplier of the Safety Data Sheet

Vof Micro to Nano
Wateringweg 79
2031EK Haarlem
Netherlands
Tel: +31(0)85-2013155
E: info@microtonano.com

1.4 Emergency telephone number

112 (NLD) or your national emergency telephone number for chemical spills, leaks, fires, exposures or accidents

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Physical: Low flammability



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Safety Data Sheet

Regulation EC Nr. 1907/2006 Art.31

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Health: Aspiration hazard 1
Skin irritant category 2
Eye irritant category 2B
Environment: None
Other hazards: None

Classification according to Regulation EC Nr. 1272/2008

Xi: Irritant
Xn: Harmful
Health: R65: Harmful: may cause lung damage if swallowed
R38: Irritating to skin
R36: Irritating to eyes
Physical Not classified
Environment: Not classified
Other hazards: Not classified

2.2 Labeling elements

Labelling accordance to Regulation EC Nr. 1272/2008

Hazard pictogramm(s):



Signal word:

Danger

Hazard statement(s):

H304: May be fatal if swallowed and enters airways
H315: Causes mild skin irritation
H320: Causes eye irritation

Precautionary statement(s)

Prevention:

P102: Keep out of reach of children
P201+P202: Obtain special instructions before use. Do not handle until safety precautions have read and understood
P264: Wash hands thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P273: Avoid release to the environment
P280: Wear protective gloves/protective clothing/eye protection/face protection

Response:

P308+P313: If exposed or concerned: Get medical attention
P304+P315: If inhaled: Get immediate medical advice/attention
P302+P352: If on skin: Wash with plenty of water and soap.
P305+P351+P338: If in eyes; rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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Storage: P391: Collect spillage
P405: Store locked up
Disposal: P501: Dispose of contents/container in accordance to local/regional/
international regulations
Supplemental hazard info: none

2.3 Other hazards

Not classified

Section 3: Composition / information on components

3.1. Substances

Not applicable

3.2 Mixtures

| Component | CAS Nr. | WT% |
|---|------------|-------|
| Distillates (Petroleum), hydrotreated heavy | 64742-52-5 | 10-50 |
| Vegetable oil | 68956-68-3 | 10-35 |
| Polypropylene glycol monobutyl ether | 9003-13-8 | 10-30 |
| Diamond powder | 7782-40-3 | 1-5 |
| Proprietary ingredients | NA | 5-15 |

Section 4: First aid measures

4.1. Description of first aid measures

Contact with eyes: Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing.
Seek medical attention if irritation persists.

Contact with skin: Wash with water and soap.
Seek medical attention if irritation persists.

Inhalation: Fresh air, keep warm and at rest.
Seek immediate medical advice

Ingestion: If swallowed, do not induce vomiting
Seek immediate medical advice
If vomiting appears imminent or occurs hold patient's head down, lower than their



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hips to help avoid possible aspiration of vomitus.
Never give liquid to a person with reduced awareness
Give water to rinse out mouth, then provide water slowly as much as casually can comfortably drink
Avoid giving milk or oils
Avoid giving alcohol

4.2. Important symptoms and effects, either immediate or delayed

Inhalation: May cause damage to the lungs; chemical pneumonitis
Symptoms: cough, sore throat, asthma
Ingestion: May cause digestive tract irritation
Symptoms: sore throat, abdominal pain, nausea, vomiting
Skin contact: Mildly irritating to skin
Symptoms: redness and pain
Eye contact: Irritating to eyes
Symptoms: redness and pain, impaired vision

4.3. Indication of any immediate medical attention and special treatment

General advise: If you feel unwell, seek medical advice; show product label if possible
If symptoms persist, always call a doctor

Section 5: Firefighting Measures

5.1. Extinguishing media

Use dry chemical, CO₂, chemical foam or water spray.

5.2 Special hazards arising from the substance or mixture

Not flammable or combustible, but will burn if involved in a fire.
Produces carbon oxides (CO, CO₂), irritating smoke

5.3 Advice to firefighters

Fight fire from a safe distance, with adequate cover
Wear self-contained breathing apparatus and full fire fighting turn-out gear



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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Wear suitable protective clothing including eye/face protection

6.2 Environmental precautions

Avoid release to the environment
Do not allow to enter public sewers and waterways

6.3 Methods and material for containment and clean up

Clean up spills immediately
Collect spillage and wipe residue with a paper towel wetted with alcohol.
Collect spillage and dirty towels in a sealable waste container
Wash spill area with soap and water to remove last traces of residue

6.4 Reference to other sections

For further information see section 8

Section 7: Handling and storage

7.1. Precautions for safe handling

Avoid breathing dust/mist
Ensure adequate ventilation
Avoid contact with skin and eyes
Wash thoroughly after use
Wear protective gloves/protective clothing/eye protection

7.2 Conditions for safe storage, including any incompatibilities

Store locked up in a cool dry place
Keep out of reach of children

7.3 Specific end uses(s)

Industrial abrasive material



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Section 8: Exposure control and personal protection

8.1. Control parameters

Exposure limits

Occupational exposure limits (OEL)

| Ingredient | TWA | STEL |
|---|----------------------|---------------|
| Distillates (Petroleum), hydrotreated heavy | 200mg/m ³ | Not available |
| Vegetable oil | Not available | Not available |
| Polypropylene glycol monobutyl ether | Not available | Not available |
| Diamond powder | 3mg/m ³ | Not available |
| Micro-Tec oil based diamond polishing paste | Not available | Not available |

8.2 Exposure controls

| | |
|-----------------------------|---|
| Control procedures: | Ensure adequate ventilation |
| Personal protection: | Take precautions to avoid contact with eyes and skin when handling the products |
| Inhalation: | In case of insufficient ventilation, wear suitable respiratory equipment |
| Hands and skin: | Wear suitable gloves against chemicals; recommended gloves: Nitrile |
| Eyes: | Wear safety goggles or full face protection |

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------------------|--|
| Appearance/physical state: | Opaque paste of varying colours due to diamond powder size |
| Colour: | Varying |
| Odour: | Mild |
| pH | Not available |
| Boiling point/range: | ≥100°C |
| Flash point: | ≥95°C (closed cup) |
| Evaporation rate: | Not available |
| Explosion limits: upper limit: | Not available |
| lower limit: | Not available |
| Vapour pressure: | 1mm @ 1810°C |
| Specific gravity: | 0.95 g/cm ³ @ 20°C |
| Solubility in water: | Insoluble |



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Auto-ignition: 215°C
Viscosity: Not available

9.2 Other information

VOC: Not available

Section 10: Stability and reactivity

10.1. Reactivity

Not reactive under recommend or normal conditions of handling, processing and use

10.2 Chemical stability

Stable at normal temperatures and pressures

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purposes

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data

10.6 Hazardous decomposition products

Carbon oxides (CO, CO₂), irritating smoke and toxic fumes

Section 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

Inhalation: May be fatal if swallowed and enters airways
Ingestion: May cause irritation
Skin contact: May cause mild skin irritation, redness or rash



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Eye contact: May cause redness, mild eye irritation
Chronic: No data available

Toxicological data:

No information available

Section 12: Ecological information

12.1. Toxicity

No information available

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Hazardous decomposition products

No experimental data available

Section 13: Disposal considerations

13.1. Waste treatment methods

Product: This material and its container must be disposed of in a safe way.
Do not discharge into drains or the environment, dispose to an authorised waste collection point.

National regulations: Disposal should be in accordance with local, state or national legislation.



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Section 14: Transport information

Labels required: None

14.1. UN number

UN-number: Not applicable

14.2 UN proper shipping name

Proper shipping name: Not applicable

14.3 Transport hazard class(es)

Class: Not applicable
ADR/RID-Classification code: Not applicable

14.4 Packing group

Packing: Not applicable

14.5 Incompatible materials

ADR/RID- Environmentally hazardous: Not applicable
IMDG-Marine pollutant: Not applicable
IATA/ICAO-Environmentally hazardous: Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable

Section 15: Regulatory information

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

Not applicable



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15.2 Chemical safety assessment

All substances are listed

Section 16: Other information

RoHS Directive Compliant

This product is fully compliant with the directive 2100/65/EU Annex II (RoHS). It does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's or PBDE's.

WEEE

This product is not a piece of electrical or electronic equipment, and it therefore not governed by Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)

Abbreviations:

| | |
|----------|---|
| Asp. Tox | Aspiration hazard |
| Carc. | Carcinogenicity |
| Exp. | Exposure |
| Flam. | Flammable |
| GHS | Global Harmonised System of Classification of Labelling Chemicals |
| Irrit. | Irritant |
| LC50 | Lethal Concentration 50% |
| LCLo | Lowest published lethal concentration |
| LD50 | Lethal Dose 50% |
| N/A | Not applicable |
| N/E | Not estimated |
| PBT | Persistent Bioaccumulative and Toxic |
| WEL | Workplace Exposure Limit |
| Repr. | Reproductive toxicant |
| RoHS | Restriction of Hazardous Substance |
| SEM | Scanning Electron Microscope |
| STEL | Short-Term Exposure Limit |
| STOT | Specific Target Organ Toxicity |
| TCLo | Lowest published toxic concentration |
| vPvB | very Persistent and very Bioaccumulative |
| WEEE | Waste Electrical and Electronic Equipment |

DSD / DPD label elements



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Full Text Risk and Hazard codes

H304: May be fatal if swallowed and enters airways
H315: Causes mild skin irritation
H320: Causes eye irritation

R65: Harmful: may cause lung damage if swallowed
R38: Irritating to skin
R36: Irritating to eyes

Safety advice:

S02 – Keep out of reach of children.
S09 – Keep container in a well ventilated place.
S13 – Keep away from food, drink and animal feeding stuff.
S23 – Do not breath gas/fumes/vapour/spray.
S26 – In case of contact with eyes, rinse with plenty of water and seek medical help.
S281 – After contact with skin, wash immediately with detergent and plenty of waterways.
S29 – Do not empty in drains.
S35 – This materials and its container must be disposed of in a safe way.
S36 – Wear suitable protective clothing.
S37 – Wear suitable gloves.
S38 – In case of insufficient ventilation, wear suitable respiratory equipment.
S39 - Wear eye / face protection.
S40 – In case of insufficient ventilation, wear suitable respiratory equipment.
S43 – In case of fire use....
S45 – In case of accident or if you feel unwell, immediately contact Doctor or Poisons information center (show label if possible).
S46 – If swallowed, seek immediate medical advice and show label if possible.
S53 – Avoid exposure – obtain special instructions before use.
S56 – Dispose of this materials and its container at hazardous or special waste collection point.
S61 – Avoid release to the environment
S63 – In case of accident by inhalation, remove casualty to fresh air and keep at rest.
S64 – If swallowed, rinse mouth with water (only if person is conscious)

This product should be stored, handled and used in accordance with good industrial hygiene practices and in accordance with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe the product from the point of view of safety requirements. It does not guarantee any specific properties.

It is the responsibility of the user to query and verify any information seeming suspect or where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, state, federal and international regulations.

