

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

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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
The substances are not subject to registration according to REACH

1.3. Details of the supplier of the Safety Data Sheet

Rave Scientific
100 Franklin Square Dr.
Suite 101
Somerset, NJ 08873
Telephone: 1-732-898-3828
Email: info@ravescientific.com
Web: www.ravescientific.com

1.4 Emergency telephone number

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

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Section 2: Hazards identification**2.1. Classification of the substance or mixture according to Regulation EC Nr. 1272/2008**

Physical: Not classified. Low flammability
Health: May be fatal if swallowed and enters airways, cat.1, H304
Causes mild skin irritation, cat. 2, H315
Causes eye irritation, cat. 2B, H320
Environment: Not classified
Other hazards: Not classified

2.2 Labeling elements accordance to Regulation EC Nr. 1272/2008**Hazard pictogramm(s):****GHS07****GHS08**

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.
P391: Collect spillage
Storage: P405: Store locked up

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Disposal: P501: Dispose of contents/container in accordance to local/regional/
international regulations
Supplemental hazard info: none

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, the substance is not a PBT or a vPvB

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

General information: The usual precautions for handling chemical substances should be observed.
If symptoms should occur, seek medical advice.
Immediately remove any clothing soiled by the product

Contact with eyes: Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing.

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

Inhalation: Fresh air, keep warm and at rest.
Seek medical attention if ill effects occur

Ingestion: If swallowed, do not induce vomiting
Seek immediate medical advice

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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.
Do not use water jet.

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
Do not allow firefighting water to enter drains or water courses
In case of fire, do not breathe fumes
Wear self-contained breathing apparatus for fire fighting

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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
Avoid contact with skin, eyes and clothes.
Do not breathe dust.

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

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7.3 Specific end uses(s)

No information available

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
Environment: Keep away from drains, surface and ground water.

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

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Explosion limits: upper limit: Not available (Cont. of page 6)
lower limit: Not available
Vapour pressure: 1mm @ 1810°C
Specific gravity: 0.95 g/cm³ @ 20°C
Solubility in water: Insoluble
Auto-ignition: 215°C
Viscosity: Not available

9.2 Other information

VOC: Not relevant

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

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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
Eye contact: May cause redness, mild eye irritation
CMR effects: Carcinogenicity classification criteria not met based on available data
Germ cell mutagenicity classification criteria not met based on available data
Reproductive toxicity classification not met based on available data.
STOT-single exposure: not classified
STOT- repeated exposure: not classified
Aspiration hazard: classification criteria not met based on available data

Toxicological data:

No information available

Symptoms related to physical, chemical and toxicological characteristics

If swallowed: vomiting, nausea, gastrointestinal complaints
If in eyes: Redness, mild eye irritation
If inhaled: Data are not available
If on skin: Redness or rash, mild skin irritation

11.2. Endocrine disrupting properties

Not listed

11.3. Toxicity

There is no additional information

Section 12: Ecological information

12.1. Toxicity

No information available

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12.2 Persistence and degradability

No information available

12.3 Bio-accumulative 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 Endocrine disrupting properties

Not listed

12.7 Other adverse effects

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.

Section 14: Transport information

14.1. UN number

UN-number: Not applicable

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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

15.2 Chemical safety assessment

All substances are listed

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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 Bio-accumulative 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 Bio-accumulative
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

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.

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