

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Diamond polishing paste

Print date: 16.02.2015

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

1.1. Product identifier

Diamond polishing paste

Product code:

90800, 90820

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

Use of the substance/mixture

Polishing paste for dental materials

1.3. Details of the supplier of the safety data sheet

Company name:	DIASWISS SA
Street:	Rte de St-Cergue 293
Place:	CH-1260 Nyon
Telephone:	+41 (0) 22 301 56 00
e-mail:	mail@diaswiss.ch
Contact person:	Nghia Diep
Internet:	http://www.diaswiss.ch

1.4. Emergency telephone number: +41 (0) 22 301 56 00 Mo-Fr 9:00 a.m. – 3:00 p.m. UTC+1

SECTION 2: Identification of hazards

2.1. Classification of the substance or mixture

Indications of danger: Xn - Harmful, Xi - Irritant
 R phrases:
 Limited evidence of a carcinogenic effect.
 Risk of serious damage to eyes.
 May cause sensitisation by skin contact.
 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:
 Serious eye damage/eye irritation: Eye Dam. 1
 Respiratory/skin sensitization: Skin Sens. 1
 Carcinogenicity: Carc. 2
 Specific target organ toxicity - repeated exposure: STOT RE 2
 Hazardous to the aquatic environment: aquatic chronic 3
 Hazard Statements:
 May cause an allergic skin reaction.
 Causes serious eye damage.
 Suspected of causing cancer.
 May cause damage to organs through prolonged or repeated exposure.
 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

Nonylphenol, ethoxylated
 nickel

Signal word:	Danger
Pictograms:	GHS05-GHS07-GHS08

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Hazard statements

May cause an allergic skin reaction.
 Causes serious eye damage.
 Suspected of causing cancer.
 May cause damage to organs through prolonged or repeated exposure.
 Harmful to aquatic life with long lasting effects.

Safety recommendations

Do not breathe dust/fume/gas/mist/vapors/spray.
 Avoid release to the environment.
 Wear protective gloves/protective clothing/eye protection/face protection.
 IF ON SKIN: Wash with plenty of water.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 Immediately call a POISON CENTER/doctor.
 Store locked up.
 Dispose of waste according to applicable legislation

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
500-024-6	Nonylphenol, ethoxylated	10 - < 25 %
9016-45-9	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-41-51-53	
01-2119946371-39	Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 2; H302 H318 H411	
231-111-4	nickel	1 - < 2.5 %
7440-02-0	Carc. Cat. 3, T - Toxic R40-48/23-43	
028-002-00-7	Carc. 2, Skin Sens. 1, STOT RE 1, Aquatic Chronic 3; H351 H317 H372 H412	
01-2119438727-29		

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid

4.1. Description of first aid measures

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash before reuse. Medical treatment necessary.

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After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Adapt fire-fighting measures to the surroundings of the fire.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

Advice on storage compatibility

No special measures are necessary.

7.3. Specific end use(s)

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7440-50-8	Copper, dusts and mists (as Cu)	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL
	- Nickel and its inorganic compounds (except nickel tetracarbonyl): nickel and water-insoluble nickel compounds (as Ni)	-	0.5		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapor/spray.

Remove contaminated, soaked clothing immediately. Draw up and observe skin protection program. Wash hands and face before breaks and after work and take a shower if necessary. Do not consume food or drinks while using the product.

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals should be chosen depending on the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Paste
 Colour: grey
 Odour: odourless

Test method

pH-Value: not determined

Changes in the physical state

Melting point: not determined
 Initial boiling point and boiling range: > 200 °C

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Flash point: > 100 °C

Flammability

Solid: not determined

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

Ignition temperature: > 320 °C

Auto-ignition temperature

Solid: not determined

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidizing.

Vapor pressure: > 0,05 hPa
(at 20 °C)

Density: not determined

Water solubility: The substance is not soluble in water.

Solubility in other solvents

not determined

Partition coefficient: not determined

Vapor density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

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 stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects**Acute toxicity**

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

Acute toxicity

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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
9016-45-9	Nonylphenol, ethoxylated				
	oral	LD50	1000 mg/kg		Manufacturer
7440-02-0	nickel				
	oral	LD50	> 9000 mg/kg	Rat	OECD 401
	inhalative (1 h) aerosol	LC50	> 10,2 mg/l	Rat	IUCLID

Irritation and corrosivity

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (nickel)

STOT-single exposure

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

Severe effects after repeated or prolonged exposure

May cause damage to organs through prolonged or repeated exposure.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (nickel)

Aspiration hazard

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

Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
9016-45-9	Nonylphenol, ethoxylated					
	Acute crustacea toxicity	EC50	1,821 mg/l	48 h	Daphnia magna (Big water flea)	IUCLID
7440-02-0	nickel					
	Acute fish toxicity	LC50	15,3 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	IUCLID
	Acute algae toxicity	ErC50	91,8 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201
	Acute crustacea toxicity	EC50	105,1 mg/l	48 h	Ceriodaphnia dubia	OECD
	Algae toxicity	NOEC	29,4 mg/l	3 d	Pseudokirchneriella subcapitata	OECD 201
	Acute bacteria toxicity		(33 mg/l)	0,5 h	Activated sludge	ISO 8192

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
9016-45-9	Nonylphenol, ethoxylated	3,7

BCF

CAS No	Chemical name	BCF	Species	Source
7440-02-0	nickel	14	Polygonum amphibium	IUCLID

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

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SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): < 15 %

Additional information

To follow: 850/2004/EC, 689/2008/EC

National regulatory information

Employment restrictions: Observe employment restrictions for adolescents. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 2 - water contaminating

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Nonylphenol, ethoxylated

nickel

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,3,7,15.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant R-phrases (Number and full text)

Harmful if swallowed.

Limited evidence of a carcinogenic effect.

Risk of serious damage to eyes.

May cause sensitisation by skin contact.

Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

Relevant H- and EUH-phrases (Number and full text)

Harmful if swallowed.

May cause an allergic skin reaction.

Causes serious eye damage.

Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on

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our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)