

Safety Data Sheet according to Regulation (EU) No. 453/2010

This version: 1.0 replaces the version: -

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: METAL-POWDER Dry Blue

Order-No.: MPS0475

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

1.3 Details of the supplier of the safety data sheet

Manufacturer: R-dental Dentalerzeugnisse GmbH
Winterhuder Weg 88
D-22085 Hamburg
Germany
E-mail: info@r-dental.com
Web: www.r-dental.com

1.4 Emergency telephone number Phone: + 49-40-22 75 76 17

2. Hazards identification

2.1 Classification of the substance or mixture See chapter 15.

2.2 Label elements See subsection 3.2

2.3 Other hazards Removes fat from the skin. Gas has a cooling effect.
Inhalated in large quantities can have an intoxicating effect.

Do not puncture can.

3. Composition/information on ingredients

3.1 Substances Not applicable.

3.2 Mixtures Pigment suspension (white and blue)
in ethanole and petrolether.

CAS-No.: [000064-17-3]

Name: Ethanole

R-Classification: R 10, F (Flammable)

Weight-%: < 20

CAS-No.: [064742-49-0]
Name: Petrolether
R-Classification: R 11, F+ (Highly flammable)
Weight-%: < 1

CAS-No.: [000431-89-0]
Name: Heptafluorpropane, HFA 227 (Gas)
R-Classification: -
Weight-%: > 75

4. First-aid measures

4.1 Description of first aid measures

| | |
|---|--|
| General information after inhalation: | Take fresh air. |
| General information after skin contact: | Wash with plenty of water and soap. |
| General information after eye contact: | Rinse with plenty of water and consult an eye physician. |
| General information after swallowing: | Of suspension. Drink a lot of water. |
| | - |

4.2 Most important symptoms and effects, both acute and delayed

See subsection 4.1. Consult physician when in doubt.

4.3 Indication of any immediate medical attention and special treatment needed

See subsection 4.1.

5. Fire fighting measures

5.1 Extinguishing media

| | |
|--------------------------|-----------------|
| Geeignete Löschmittel: | No restriction. |
| Ungeeignete Löschmittel: | None. |

5.2 Special hazards arising from the substance or mixture

See subsection 5.3.

5.3 Advice for firefighters

See subsection 5.1.

Can can explode when exposed to heat. Heptafluorpropan extinguished fire, and degrades at high temperatures to toxic, fluoride containing gases.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

This product should only be used by a dentist or a licensed professional.

6.2 Environmental precautions

Do not let liquid material come into contact with the environment.

6.3 Methods and material for containment and cleaning up

Take up the material with absorbent materials.

6.4 Reference to other sections

See section 13.

7. Handling and storage

7.1 Precautions for safe handling

This product should only be used by a dentist or a licensed professional.
Keep away from food stuffs. Do not eat, drink or smoke during handling.

7.2 Conditions for safe storage, including any incompatibilities

Store dry, at room temperature and light protected, especially direct sun light, and store away from food.

7.3 Special end use(s)

Store cool and light protected below 78 °F.

8. Exposure controls/personal protection

8.1 Control parameters

CAS-No.: [000064-17-3]
Name: Ethanol
MAK 960 mg/m³

CAS-No.: [064742-49-0]
Name: Petrolether
MAK 1000 mg/m³

8.2 Exposure controls

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Eyes:

Not necessary.

Hands:

Wear protective gloves.

Respiration:

Not required.

Thermal driven:

None.

Environmental exposure:

See subsection 6.2.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--------------------------------|
| a) Appearance: | Suspension. |
| aa) Colour: | Light blue. |
| b) Odour: | Alcoholic. |
| c) Odour threshold: | Not applicable. |
| d) pH: | Neutral. |
| e) Melting point/freezing point: | Not applicable. |
| f) Initial boiling point and boiling range: | About 78 °C (172 °F). |
| g) Flash point: | Not applicable. |
| h) Evaporation rate: | Not applicable. |
| i) Flammability (solid/gas): | Not applicable. |
| j) Upper/lower flammability or explosive limits: | Not applicable. |
| k) Vapour pressure: | Negligible. |
| l) Vapour density: | Not applicable. |
| m) Relative density: | 1,70 g/cm ³ (68 °F) |
| n) Solubility(ies): | |
| Water solubility: | Soluble. |
| Soluble in/miscible with: | Soluble in water. |
| o) Partition coefficient: | Not applicable. |
| p) Auto-ignition temperature: | Not applicable. |
| q) Decomposition temperature: | Not applicable. |

- r) Viscosity: Liquid.
s) Explosive properties: Not applicable.
t) Oxidising properties: Not applicable.

9.2 Other information None.

10. Stability and reactivity

- 10.1 Reactivity See section 2.
10.2 Chemical stability Not stable.
Store if possible cool and light protected below 78 °F with respect to the expiration date.
10.3 Possibility of hazardous reactions Avoid contact with peroxides, strong oxidation agents and radicals.
10.4 Conditions to avoid Heat and direct sun light. Contact with peroxides, strong oxidation agents and radicals.
10.5 Incompatible materials See subsection 10.6.
10.6 Hazardous decomposition products Carbon monoxide, carbon dioxide and fluor containing gases.

11. Toxicological information

11.1 Information on toxicological effects

- a) acute toxicity: Not toxic.
LD50 (rat): 7060 mg/kg (Ethanol).
b) irritation: Degreasing, skin cream recommended.
c) corrosivity: Not applicable.
d) sensitisation: See b).
e) repeated dose toxicity: None.
f) carcinogenicity: Not known.
g) mutagenicity: Not known.
h) toxicity for reproduction: Not known.

Toxicological tests: None.
Experiences from practice: Slightly irritation of skin. Irritating on eyes.
Details about the ingredients: See section 3.
Additional toxicological informations: The experience shows no health risks when properly handled by authorized personnel. Until now no health injuries are observed by using this material.

12. Ecological information

- 12.1 Toxicity Ethanol is degradable up to 90 %.
12.2 Persistence and degradability No data available.
12.3 Bioaccumulative potential No data available.
12.4 Mobility in soil No data available.
12.5 Results of PBT and vPvB assessment Not applicable.
12.6 Other adverse effects When properly handled no specific environmental problems are expected.

13. Disposal considerations

- 13.1 Waste treatment methods Use proper landfill disposal or incineration in accordance with local, state and federal regulations.
Disposal key number: Not known.

Uncleaned packaging: See 13.1.
Cleaned packaging: See 13.1.

14. Transport information

14.1 UN Number 1950.
14.2 UN proper shipping name Aerosol.
14.3 Transport hazard class(es)

Land transport GGVS/ADR/RID

Class: 2.2
Hazard number (Kemler): -
Classification code: 5A
Description of the product: Aerosol
Hazard trigger: -

Sea transport GGVSeeADNR/IMDG

Class: 2.2/32-04
EmS-No.: -
Description of the product: Aerosol
Hazard trigger: -
Label: -

Air transport ICAO-TI and IATA-DGR:

Class: 2
Description of the product: Aerosol, non-flammable gas, non-toxic gas
Hazard trigger: -
Label: Gas
Passenger aircraft: Packing instruction 203, max. 75 kg
Freight aircraft: Packing instruction 203, max. 150 kg

14.4 Packing group XYZ
14.5 Environmental hazards See section 12.
14.6 Special precautions for user Not necessary, no dangerous good.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

The transport regulations are cited according to international regulations and in the form applicable in Germany (GGVS/GGVE). National deviations in other countries are not considered.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture The product is a class I medical device according to MDD 93/42/EEC.
15.2 Chemical safety assessment No.

16. Other informations

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|---------------------------------------|---|
| a) Changes to previous version: | - |
| b) Legend to abbreviations: | - |
| c) Literature references: | See also www.wikipedia.com |
| d) Methods of evaluation information: | - |
| e) R-phrases, stated: | R10 Flammable. R11 Highly flammable. |
| f) Training advices: | - |
| Data sheet producing area: | Dr. Andreas Sprafke, R-dental Dentalerzeugnisse GmbH, Hamburg. |

The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to product properties. However users of the product should satisfy themselves that the information given above is sufficient and correct for their circumstances of use.

Prepared by: Dr. Andreas Sprafke, R-dental GmbH.