



Safety data sheet
According to 1907/2006/EC, Article 31

Printing date 09.04.2018

Version number 5

Revision: 09.04.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking**· 1.1 Product identifier****· Trade name: DETARTRINE Z****· Article number / formula: 324S****· 1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· Application of the substance / the preparation : dental product**· 1.3 Details of the supplier of the safety data sheet****· Manufacturer/Supplier:**

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· 1.4 Emergency telephone number:

France (INRS 24h/24) - Tel : +33 (0)1 45 42 59 59

Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112

Belgique - Tel : 32 070/245 245

UK : Call NHS 999 in a medical emergency. If you urgently need medical help or advice but it's not a life-threatening situation, call 111 (24/7). The NHS 111 number is currently only available in certain areas. If you're outside of these areas, you should call NHS Direct on 0845 4647

SECTION 2: Hazards identification**· 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.

· 2.2 Label elements**· Labelling according to Regulation (EC) No 1272/2008** Not classified as hazardous**· Hazard pictograms** Not classified as hazardous**· Signal word** Not classified as hazardous**· Hazard statements** Not classified as hazardous**· Additional information:**

EUH208 Contains trans-p-Menthan-3-one. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

· Labelling of packages where the contents do not exceed 125 ml**· Hazard pictograms** Not classified as hazardous**· Signal word** Not classified as hazardous**· Hazard statements** Not classified as hazardous**· 2.3 Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****· 3.2 Chemical characterisation: Mixtures****· Description:** Mixture: consisting of the following components.

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· Dangerous components:

CAS: 14940-68-2	Zircon	⚠ Acute Tox. 4, H302	10-25%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 RTECS: KQ 6300000 Reg.nr.: 01-2119457610-43-xxxx	ethanol	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319	≤2.5%

· SVHC No

 · **Additional information:** For the wording of the listed risk phrases, refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After excessive inhalation:** Provide fresh air; consult a doctor in case of medical complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed :**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed :**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture :** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures :** Not required.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow the product to enter sewers/ surface water or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections :**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling :** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.

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- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- 7.3 Specific end use(s) : No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see section 7.

· 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

CAS: 14808-60-7 Quartz (SiO₂) (25-50%)

BOELV (EU)	Long-term value: 0.1* mg/m ³ *respirable fraction
MAK (Switzerland)	Long-term value: 0.15 a mg/m ³ P C1a SSc;

CAS: 56-81-5 glycerol (25-50%)

WEL (Great Britain)	Long-term value: 10 mg/m ³
MAK (Switzerland)	Short-term value: 100 e mg/m ³ Long-term value: 50 e mg/m ³ SSc;

CAS: 64-17-5 ethanol (≤2.5%)

WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
MAK (Switzerland)	Short-term value: 1920 mg/m ³ , 1000 ppm Long-term value: 960 mg/m ³ , 500 ppm SSc;

CAS: 9005-25-8 Starch (<1%)

WEL (Great Britain)	Long-term value: 10* 4** mg/m ³ *total inhalable **respirable
MAK (Switzerland)	Long-term value: 3 a mg/m ³

CAS: 1310-58-3 Hydroxyde de Potassium (<0.1%)

WEL (Great Britain)	Short-term value: 2 mg/m ³
MAK (Switzerland)	Long-term value: 2 e mg/m ³

· DNELs

CAS: 64-17-5 ethanol

Dermal	DNEL Worker long-term systemic	343 mg/kg bw/d
Inhalative	DNEL Worker long-term systemic	950 mg/m ³
	DNEL Worker acute/short-term local effects	19 mg/m ³

· PNECs

CAS: 64-17-5 ethanol

PNEC STP	0.72 mg/L
PNEC aqua (fresh water)	0.96 mg/L
PNEC aqua (marine water)	0.79 mg/L

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PNEC sediment (fresh water)	3.6 mg/kg
PNEC sediment (marine water)	2.9 mg/kg
PNEC soil	0.63 mg/kg

Additional information:

The most current valid lists have been used as a basis for the production of this document.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

Protection of hands:



Protective gloves

Gloves material : Butyl rubber, BR

Eye protection: Goggles recommended during refilling

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Liquid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value: Not determined.

Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

Flash point: Not applicable.

Flammability (solid, gas): Not applicable.

Ignition temperature: 400 °C

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not self igniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure at 20 °C: 0.1 hPa

Density:	Not determined.
Relative density :	Not determined.
Vapour density :	Not determined.
Evaporation rate :	Not determined.

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- **Solubility in / Miscibility with water:** *Not miscible or difficult to mix.*
- **Segregation coefficient (n-octanol/water):** *Not determined.*
- **Viscosity:**
 - Dynamic: Not determined.*
 - Kinematic: Not determined.*
- **9.2 Other information :** *No further relevant information available.*

SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions :** *No dangerous reactions known.*
- **10.4 Conditions to avoid :** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** *Based on available data, the classification criteria are not met.*

· **LD/LC50 values relevant for classification:**

CAS: 14940-68-2 Zircon

Oral	LD50	990-2,290 mg/kg (rat)
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CAS: 64-17-5 ethanol

Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)

- **Primary irritant effect:**
 - **On the skin:** *Based on available data, the classification criteria are not met.*
 - **On the eyes:** *Based on available data, the classification criteria are not met.*
 - **Respiratory or skin sensitization** *Based on available data, the classification criteria are not met.*
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*
- **Carcinogenicity** *Based on available data, the classification criteria are not met.*
- **Reproductive toxicity** *Based on available data, the classification criteria are not met.*
- **STOT-single exposure** *Based on available data, the classification criteria are not met.*
- **STOT-repeated exposure** *Based on available data, the classification criteria are not met.*
- **Aspiration hazard** *Based on available data, the classification criteria are not met.*

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 14940-68-2 Zircon

LC50 96h 15-240 mg/l (fish)

EC50 96h 2.6 mg/l (Algae)

CAS: 64-17-5 ethanol

EC50 72h 275 mg/l (Algae)

EC50 48h 12,340 mg/l (daphnia)

EC50 96h 13,000 mg/l (fish)

12.2 Persistence and degradability : No further relevant information available.

12.3 Bioaccumulative potential : No further relevant information available.

12.4 Mobility in soil : No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects : No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation :



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR, ADN, IMDG, IATA

Not classified as hazardous for transport

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

Not classified as hazardous for transport

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Not classified as hazardous for transport

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|--|--|
| · 14.4 Packing group
· ADR, IMDG, IATA | <i>Not classified as hazardous for transport</i> |
| · 14.5 Environmental hazards:
· Marine pollutant: | <i>No</i> |
| · 14.6 Special precautions for user | <i>Not applicable.</i> |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | <i>Not applicable.</i> |
| · UN "Model Regulation": | <i>Not classified as hazardous for transport</i> |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- *Directive 2012/18/EU*
- *Named dangerous substances - ANNEX I None of the ingredients is listed.*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
- **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 Harmonised 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 (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2