

According to 1907/2006/EG,

Article 31

Date of issue: 05.10.2010

Printing date: 29.08.11

Hinrisep G

1. Identification of the substance / Preparation and Company:

Identification of the substance or preparation:

Commercial product name: Hinrisep G - Coating

Company / Manufacturer:

ERNST HINRICHS GmbH

Borsigstr. 1

D - 38644 Goslar

0 53 21 / 5 06 24

0 53 21 / 5 08 81

info@hinrichs-dental.de / www.hinrichs-dental.de

2. Composition / Information on Ingredients:

2.1 Chemical characterization: Mixture.

Description: Mixture of substances listed below with non-hazardous additions.

2.2 Dangerous components:

CAS: 67-63-0

EINECS: 200-661-7

propan-2-ol



Xi, F; R11-36-67

Danger: 2.6/2

Warning: 3.3/2A, 3.8/3

CAS: 142-82-5

EINECS: 205-563-8



Xn, Xi, F, N; R 11-38-50 / 53-65-67

Danger: 2.6/2; 3.10/1

Warning: 4.1.C/1; 3.2/2, 3.8/3

CAS: 108-87-2

EINECS: 203-624-3



Xn, Xi, F, N; R 11-38-51 / 53-65-67

Danger: 2.6/2; 3.10/1

Warning: 3.2/2, 3.8/3



4.1.C/2;

CAS: 110-82-7

EINECS: 203-806-2



Xn, Xi, F, N; R 11-38-51 / 53-65-67

Danger: 2.6/2; 3.10/1

Warning: 4.1.C/1; 3.2/2, 3.8/3

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

3. Hazards Identification:

3.1 Hazard description:



Xn Harmful

N Dangerous for the environment

F Highly flammable

3.2 Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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- 3.3 R11 Highly flammable.
 R 36/38 Irritating to eyes and skin.
 R 50/53 Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
 R 65 Harmful: may cause lung damage if swallowed.
 R67 Vapours may cause drowsiness and dizziness.

3.4 Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3.5 GHS-label elements:



Danger

2.6/2 – Highly flammable liquid and vapour.



Danger

3.10/1 – May be fatal if swallowed and enters airways.



Warning

4.1/1 – Very toxic to aquatic life with long lasting effects.



Warning

3.2/2

| Causes skin irritation.

3.3/2A

| Causes serious eye irritation.

3.8/3

| May cause drowsiness or dizziness.

3.6 Prevention:

Keep away from heat / sparks / open flames / hot surfaces. – No smoking.

Keep container tightly closed.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / lighting / equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust / fume / gas / mist / vapours / spray.

Wash thoroughly after handling.

Use only outdoors or in well-ventilated area.

Avoid release to the environment.

Wear protective gloves / protective clothing / eye protection / face protection.

3.7 Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse with water / shower.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable or breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor / physician if you feel unwell.

Specific treatment see label.

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice / attention.

If eye irritation persists: Get medical advice / attention.

Take off contaminated clothing and wash before reuse.

In case of fire: Use for extinction: CO₂, powder or water spray.

Collect spillage.

3.8 Storage:

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Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Store locked up.

3.9 Disposal:

Dispose of contents / container in accordance with local / regional / national / international regulations.

4. First aid measures:

- | | | |
|-----|----------------------|--|
| 4.1 | General information: | Immediately remove any clothing soiled by the product. |
| 4.2 | After inhalation: | In case of unconsciousness place patient stably in side position for transportation. |
| 4.3 | After skin contact: | Immediately wash with water and soap and rinse thoroughly. |
| 4.4 | After eye contact: | Rinse open eye for several minutes under running water. If symptoms persist, consult a doctor. |
| 4.5 | After swallowing: | If symptoms persist consult doctor. |

5. Fire Fighting measures:

- | | | |
|-----|--------------------------------|---|
| 5.1 | Suitable extinguishing agents: | CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |
| 5.2 | Protective equipment: | No special measures required. |

6. Accidental release measures:

- | | | |
|-----|--|---|
| 6.1 | Person-related safety precautions: | Wear protective equipment. Keep unprotected persons away. |
| 6.2 | Measures for environmental protection: | Inform respective authorities in case of seepage into watercourse or sewage system.
Do not allow to enter sewers / surface or ground water. |
| 6.3 | Measures for cleaning / collecting: | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, saw dust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation. |

7. Handling and Storage:

- | | | |
|-----|---|---|
| 7.1 | Handling: | |
| | Information for safe handling: | Ensure good ventilation / exhaust at the workplace.
Prevent formation of aerosols. |
| | Information about fire- and explosion protection: | Keep ignition sources away – Do not smoke.
Protect against electrostatic charges. |
| 7.2 | Storage: | |
| | Requirements to be met by storerooms and receptacles: | No special requirements. |
| | Information about storing in one common storage facility: | Not required. |
| | Further information about storage conditions: | Keep container tightly sealed |

8. Exposure controls / Personal protection:

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

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

67-63-0 propan-2-ol

WEL	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 1250 mg/m ³ , 500 ppm
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142-82-5 heptane

WEL	Long-term value: 500 ppm
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110-82-7 cyclohexane

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WEL	Short-term value: 1050 mg/m ³ , 300 ppm Long-term value: 350 mg/m ³ , 100 ppm
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- 8.2 Additional information: The lists valid during the making were used as basis.
- Personal protective equipment: Keep away from foodstuffs, beverages and feed.
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
- Respiratory protection: Avoid contact with the eyes and skin.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Protection of hands:  Protective gloves.
- The glove material has to be impermeable and resistant to the product / the substance / the preparation. Due to missing tests no recommendation to the glove material can be given for the product / the preparation / the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- Material of gloves: The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR.
- Eye protection:  Tightly sealed goggles.

9. Physical and chemical properties:

- 9.1 General information:
- Form: Fluid
- Colour: Colourless
- Odour: Characteristic
- 9.2 Change in condition:
- Boiling point / Boiling range: 78°C
- Flash point: -5°C
- Ignition temperature: 215°C
- Self-igniting: Product is not self-igniting.
- Danger of explosion: The product does not present an explosion hazard.
- Explosion limits:
- Lower: 1,1 Vol %
- Upper: 12,0 Vol %
- Density at 20°C: 0,74 g/cm³
- Solubility in / miscibility with water: Not miscible or difficult to mix.
- Solvent content: 71,0 %
- Organic solvents:
- Solids content: 7 %

10. Stability and Reactivity:

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions: No dangerous reactions known.

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Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological Information:

- 11.1 Acute toxicity:
 LD/LC50 values relevant for classification: 108-82-7 methylcyclohexane: Oral – LD50 – 2250 mg/kg (mouse)
 110-82-7 cyclohexane: Oral – LD50 – 12705 mg/kg (rat)
 Primary irritant effect:
 On the skin: Irritant to skin and mucous membranes.
 On the eye: Irritating effect.
 Sensitization: No sensitizing effects known.
 Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant.

12. Ecological Information:

- 12.1 Ecotoxicological effects:
 12.2 Remark: Very toxic for fish.
 General notes: Water hazard class 2 (German regulation) (Self-assessment): hazardous for water.
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Very toxic for aquatic organisms.

13. Disposal Considerations:

- 13.1 Product - Recommendation: Must not be disposed together with the household garbage. Do not allow product to reach sewage system.
 13.2 European waste catalogue:
- | | |
|----------|---|
| 07 00 00 | WASTES FROM ORGANIC CHEMICAL PROCESSES |
| 07 07 00 | Wastes from the MFSU of fine chemicals and chemical products not otherwise specified. |
| 07 07 04 | Other organic solvents, washing liquids and mother liquors |
- 13.3 Uncleaned packaging – Recommendation: Disposal must be made according to official regulations.

14. Transport Information:

Land transport ADR/RID (cross-border)



ADR/RID class: 3 Flammable liquids.
 Danger code (Kemler): 33
 UN-Number: 1993
 Packaging group: II
 Hazard label: 3
 UN proper shipping name: 1993 FLAMMABLE LIQUID, N.O.S. (HEPTANES, ISOPROPANOL (ISOPROPYLALCOHOL))

Maritime transport IMDG:



IMDG Class: 3

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UN-Number:	1993
Label:	3
Packaging group:	II
EMS-Number:	F-E, S-E
Marine pollutant:	No.
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (HEPTANES, ISOPROPANOL (ISOPROPYLALCOHOL))

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA-Class:	3
UN/ID-Number:	1993
Label:	3
Packaging group:	II
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (HEPTANES, ISOPROPANOL (ISOPROPYLALCOHOL))

UN „Model Regulation“: UN1993, FLAMMABLE LIQUID, N.O.S., 3, II

Environmental hazards: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID

15. Regulatory Information:

15.1 Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

15.2 Code letter and hazard designation of product:



Xn Harmful
N Dangerous for the environment
F Highly flammable

15.3 Hazard-determining components of labelling: Heptane.

15.4 R-phrases:

11	Highly flammable.
36/38	Irritating to eyes and skin.
50/53	Very toxic to aquatic organisms - may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
67	Vapours may cause drowsiness and dizziness.

15.5 S-phrases:

7/9	Keep container tightly closed and in a well-ventilated place.
16	Keep away from sources of ignition – No smoking.
33	Take precautionary measures against static charges.
25	Avoid contact with the eyes.
60	This material and its container must be disposed as hazardous waste.
62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. Further 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.

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16.1 Relevant R-phrases:

11	Highly flammable.
36	Irritating to eyes.
38	Irritating to skin.
50/53	Very toxic to aquatic organisms - may cause long-term adverse effects in the aquatic environment.
51/53	Toxic for aquatic organisms - may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
67	Vapours may cause drowsiness and dizziness.

16.2 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).
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).
IMDG:	International Maritime Code for Dangerous Goods.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association".
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization".
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals.
LC50:	Lethal concentration, 50 percent.
LD50:	Lethal dose, 50 percent.