



According to 1907/2006/EG, Article 31

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1. Identification of the substance / Preparation and Company:

- 1.1 Identification of the substance or preparation:
Commercial product name: Hinrisep G
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
Application of the substance / the mixture: Coating
- 1.3 Manufacturer/Supplier: ERNST HINRICHS Dental GmbH
Street / mailbox: Borsigstr. 1
Country code. / postal code / city: D - 38644 Goslar
Phone: 0 53 21 / 5 06 24
Fax: 0 53 21 / 5 08 81
E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de
Further information obtainable from: ERNST HINRICHS Dental GmbH
- 1.4 Emergency telephone number
ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

2. Hazards Identification:

- 2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008



GHS02 flame
Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment
Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

- 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02 GHS07 GHS08 GHS09

Signal word: Danger.
Hazard-determining components of labelling: Heptane
Propan-2-ol

Hazard statements

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.



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H336	May cause drowsiness or dizziness.
H304	May be fatal if swallowed and enters airways.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves / eye protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- 2.3 Other hazards:
 Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

3. Composition / Information on Ingredients:

3.2 Chemical characterization:	Mixture.	
Description:	Mixture of substances listed below with non-hazardous additions.	
Dangerous components:		
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-50 %
CAS: 142-82-5 EINECS: 205-563-8	heptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	10-25 %
CAS: 108-87-2 EINECS: 203-624-3	methylcyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2,5-10 %
CAS: 110-82-7 EINECS: 203-806-2	cyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, 4410; Skin Irrit. 2, H315; STOT SE 3, H336	2,5-10 %

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

4. First aid measures:

- | | |
|--|--|
| 4.1 After inhalation: | In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints. |
| 4.2 After skin contact: | Immediately wash with water and soap and rinse thoroughly. |
| 4.3 After eye contact: | Rinse open eye for several minutes under running water. If symptoms persist, consult a doctor. |
| 4.4 After swallowing: | Do not induce vomiting; call for medical help immediately. |
| 4.5 Most important symptoms and effects, both acute and delayed: | No further relevant information available. |



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4.6 Indication of any immediate medical attention and special treatment needed No further relevant information available.

5. Fire Fighting measures:

5.1 Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 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, universal binders and sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections: See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Handling and Storage:

7.1 Handling:
Precautions for safe handling: Store in cool, dry place in tightly closed receptacles.
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: Store in a cool location.
Information about storing in one common storage facility: Not required.

7.3 Further information about storage conditions:
Specific end use(s) Keep container tightly sealed.
Store in cool, dry conditions in well-sealed receptacles.
No further relevant information available.

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: 999 mg/m ³ , 400 ppm
142-82-5 heptane	
WEL	Long-term value: 500 ppm
110-82-7 cyclohexane	
WEL	Short-term value: 1050 mg/m ³ , 300 ppm Long-term value: 350 mg/m ³ , 100 ppm

Additional information: The lists valid during the making were used as basis.



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8.2 Personal protective equipment:
General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Not necessary if room is well-ventilated.

Respiratory protection:
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.

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:
As protection from splashes gloves made of the following materials are suitable:

Chloroprene rubber, CR
Fluorocarbon rubber (Viton)

Eye protection:



Tightly sealed goggles.

9. Physical and chemical properties:

9.1 General information:

Form:	Fluid
Colour:	Clear
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.

9.2 Change in condition:

Boiling point / Boiling range:	78°C
Flash point:	-9°C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	215°C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower:	1,1 Vol %
Upper:	12,0 Vol %
Vapour pressure at 20 °C:	48 hPa
Density at 20°C:	0,74 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / miscibility with water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.



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Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	70,0 %
Water:	0 %
VOC (EC):	78 %
9.2 Other information:	No further relevant information available.

10. Stability and Reactivity:

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

11. Toxicological Information:

11.1 Acute toxicity:

LD/LC50 values relevant for classification:

67-63-0 propan-2-ol		
Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)
108-87-2 methylcyclohexane		
Oral	LD50	2250 mg/kg (mouse)
110-82-7 cyclohexane		
Oral	LD50	12705 mg/kg (rat)

11.2 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.

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.

12. Ecological Information:

12.1 Toxicity	
Aquatic toxicity:	No further relevant information available.
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.
Ecotoxicological effects:	
Remark:	Very toxic for fish.
Additional ecological information:	



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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. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable.
vPvB: Not applicable.

13. Disposal Considerations:



13.1 Product - Recommendation: Must not be disposed together with the household garbage. Do not allow product to reach sewage system.

European waste catalogue:

07 00 00	WASTES FROM ORGANIC CHEMICAL PROZESSES
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

Uncleaned packaging – Recommendation: Disposal off according to official regulations.

14. Transport Information:

UN-Number ADR, IMDG, IATA	UN1993
UN proper shipping name ADR	1993 FLA MM ABLE L IQU ID , N. O. S. (HE PTA NE S, ISOPROPANOL (ISOPROPYL ALCOHOL))
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (HEPTANES, ISOPROPANOL (ISOPROPYL ALCOHOL))
Transport hazard class: ADR:	
	
Class: Label:	3 Flammable liquids. 3
IMDG, IATA	
	
Class: Label:	3 Flammable liquids. 3
ADR, IMDG, IATA Packaging group:	II
Environmental hazards:	
Marine pollutant:	No.
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	33
EMS Number:	F-E,S-E
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
Transport/Additional information: ADR	
Excepted quantities (EQ):	E2
Limited quantities (LQ)	1L
Transport category	2



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Tunnel restriction code	D/E
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (HEPTANES, ISOPROPANOL (ISOPROPYLALCOHOL))

UN „Model Regulation“: UN1993, FLAMMABLE LIQUID, N.O.S., 3, II**15. Regulatory Information:**

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

Labelling according to Regulation (EC) No 1272/2008

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

16.1 Relevant phrases:

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Toxic to aquatic life with long lasting effects.
H411	Very toxic to aquatic life with long lasting effects.

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.
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)
VOC:	Volatile Organic Compounds (USA, EU)
LC50:	Lethal concentration, 50 percent.
LD50:	Lethal dose, 50 percent.
Flam. Liq. 2:	Flammable liquids, Hazard Category 2
Skin Irrit. 2:	Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2:	Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3:	Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1:	Aspiration hazard, Hazard Category 1
Aquatic Acute 1:	Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1:	Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2:	Hazardous to the aquatic environment - Chronic Hazard, Category 2