



According to 1907/2006/EG,
Article 31

Date of issue: 15.05.2014

Printing date: 25.10.2016

HinriScan-Spray Plus

1. Identification of the substance / Preparation and Company:

- 1.1 Product identifier
Tradename: HinriScan-Spray Plus
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
Application of the substance / the mixture: Auxiliary for dental technology
- 1.3 Details of the supplier of the safety data sheet
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. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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



F+; Extremely flammable
R12: Extremely flammable.

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.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Classification system:

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

- 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
Signal word: Danger.
Hazard statements: H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



According to 1907/2006/EG,
Article 31

Date of issue: 15.05.2014

Printing date: 25.10.2016

HinriScan-Spray Plus

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P251 Do not pierce or burn, even after use.
 P211 Do not spray on an open flame or other ignition source.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 Additional information: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
 Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – No smoking. Keep out of the reach of children



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

3. Composition/ information on ingredients

3.1 Chemical characterization: Mixtures

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

Dangerous components:

CAS: 75-28-5 EINECS: 200-857-2	Isobutene  F+ R12 Flam. Gas 1, H220; Press. Gas, H280	50-100%
CAS: 64-17-5 EINECS: 200-578-6	Ethanol  F R11 Flam. Liq. 2, H225	2.5-10%

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

4. First aid measures:

4.1 Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.
 After skin contact: Generally the product does not irritate the skin.
 After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
 After swallowing: If symptoms persist consult doctor.

4.2 Information for doctor:

Most important symptoms and effects, both acute and delayed: No further relevant information available.
 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. Fire Fighting measures:

5.1 Extinguishing media

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



According to 1907/2006/EG,
Article 31

Date of issue: 15.05.2014

Printing date: 25.10.2016

HinriScan-Spray Plus

- extinguishing agents:
- 5.2 Special hazards arising from the substance or mixture: No further relevant information available.
- 5.3 Advice for firefighters: Do not inhale explosion gases or combustion gases.
- Protective equipment:

6. Accidental release measures:

- 6.1 Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: 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: Keep away from heat and direct sunlight.
Use only in well ventilated areas.
Open and handle receptacle with care.
 - Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
 - Conditions for safe storage, including any incompatibilities
- 7.2 Storage:
 - Requirements to be met by storerooms and receptacles: Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well, sealed receptacles.
Protect from heat and direct sunlight.
- 7.3 Specific end use(s): 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 Control parameters:
Ingredients with limit values that require monitoring at the workplace:

64-17-5 ethanol	
WEL	Long-term value: 1920 mg/m ³ , 1000 ppm

- 8.2 Exposure controls
 - Personal protective equipment: The lists valid during the making were used as basis.
 - General protective and hygienic measures: Wash hands before breaks and at the end of work.
 - Respiratory protection: Not necessary if room is well-ventilated.



According to 1907/2006/EG,
Article 31

Date of issue: 15.05.2014

Printing date: 25.10.2016

HinriScan-Spray Plus

Protection of hands:	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves	The selection of the 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 can't 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 Butyl rubber, BR Natural rubber, NR
Eye protection:	



Tightly sealed goggles

9. Physical and chemical properties:

9.1	Information on basic physical and chemical properties	
	General information:	
	Appearance:	
	Form:	Aerosol
	Colour:	Whitish
	Odour:	Characteristic
	Odour threshold:	Not determined.
	pH-value:	Not determined.
9.2	Change in condition:	
	Melting point / Melting range:	Undetermined.
	Boiling point / Boiling range:	-11°C
	Flash point:	Not applicable, as aerosol.
	Flammability (solid, gaseous):	Not applicable.
	Ignition temperature:	460°C
	Decomposition temperature:	Not determined.
	Self-igniting:	Product is not self-igniting.
	Danger of explosion:	Not determined.
	Explosion limits:	
	Lower:	1,8 Vol % (Isobutan)
	Upper:	8,5 Vol % (Isobutan)
	Vapour pressure at 20°C:	3000 hPa
	Density at 20°C:	0,64 g/cm ³
	Relative density	Not determined.
	Vapour density	Not determined.
	Evaporation rate	Not applicable.
	Solubility in / miscibility with water:	Not miscible or difficult to mix.
	Partition coefficient (n-octanol /water):	Not determined.
	Viscosity:	
	Dynamic:	Not applicable.
	Kinematic:	Not applicable.
	Solvent content:	
	Organic solvents:	9%
	VOC (EC)	94%
	Solids content:	6 %






According to 1907/2006/EG,
Article 31

Date of issue: 15.05.2014

Printing date: 25.10.2016

HinriScan-Spray Plus

14. Transport Information:

Land transport ADR/RID (cross-border)	
	
ADR/RID class:	2 5F Gases.
Danger code (Kemler):	-
UN-Number:	1950
Packaging group:	-
Hazard label	2.1
UN proper shipping name:	1950 AEROSOLS
Maritime transport IMDG:	
	
IMDG Class:	2.1
UN-Number:	1950
Label:	2.1
Packaging group:	-
EMS-Number:	F-D, S-U
Marine pollutant:	No.
Proper shipping name:	AEROSOLS
Air transport ICAO-TI and IATA-DGR:	
	
ICAO/IATA-Class:	2.1
UN/ID-Number:	1950
Label:	2.1
Packaging group:	-
Proper shipping name:	AEROSOLS, flammable
Special precautions for user:	Warning Gases.
Danger code Kemmler:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	Not applicable.
Transport / Additional information:	
Excepted quantities:	E0
Limited quantities:	1L
Transport category:	2
Tunnel restriction code:	D
UN „Model Regulation“:	UN1950, AEROSOLS, 2.1

15. Regulatory Information:

15.1 Labelling according to Regulation (EC) No. 1272/2008: The product is classified and labelled according to the CLP regulation.

15.2 Hazard pictograms:



GHS02

Signal word: Danger.

15.3 Hazard statements:

H222-H229: | Extremely flammable aerosol.Pressurized container: May burst if heated.



According to 1907/2006/EG,
Article 31

Date of issue: 15.05.2014

Printing date: 25.10.2016

HinriScan-Spray Plus

15.4 Precautionary statements:

- | | |
|------------|--|
| P210: | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P251: | Do not pierce or burn, even after use. |
| P211: | Do not spray on and open flame or other ignition source. |
| P410+P412: | Protect from sunlight. Do not expose to temperatures exceeding 50°C/122 °F. |

15.6 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:

- | | |
|-------|---|
| H220: | Extremely flammable gas. |
| H225 | Highly flammable liquid and vapour. |
| H280: | Contains gas under pressure; may explode if heated. |
| R11 | Highly flammable. |
| R12 | Extremely flammable. |

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. |