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Safety Data Sheet acc. to OSHA HCS

Printing date 05/19/2015

Version number 3

Reviewed on 04/29/2015

1 Identification

- · Product identifier
- Trade name: Fluor Protector S

• Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

- · Application of the substance / the mixture Protective varnish containing fluoride
- · Details of the supplier of the safety data sheet

Manufacturer/Supplier: Ivoclar Vivadent Inc. 175 Pineview Drive, Amherst, N.Y. 14228 USA Tel. +1 800 533 6825 Fax +1 716 691 2285

Ivoclar Vivadent Inc. 1-6600 Dixie Road Mississauga, Ontario L5T 2Y2 Canada Phone: +1 905 670 8499 Fax: +1 905 670 3102

 Information department: Quality Assurance / Regulatory Affairs
 Emergency telephone number: 24 Hour Emergency Assistance: Emergency-Call USA - Infotrac: 1-800-535-5053 Emergency-Call Canada - Canutec: 1-613-996-6666

General SDS Assistance: US: 1-800-533-6825 Canada: 1-800-263-8182

2 Hazard(s) identification

• Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Carc. 1A H350 May cause cancer.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

- Hazard-determining components of labeling: ethanol
- Hazard statements Highly flammable liquid and vapor. May cause cancer.

(Contd. on page 2)

Printing date 05/19/2015

Version number 3

Reviewed on 04/29/2015

Trade name: Fluor Protector S

(Contd. of page 1)

• **Precautionary statements** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations. • *Additional information:*

Medical devices are exempt from the labeling provisions of GHS according to the Hazard Communication Standard (HCS).

- Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)



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

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
64-17-5	ethanol	50-100%	
12125-01-8	ammonium fluoride	1-<2.5%	

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation:
- Supply fresh air; consult doctor in case of complaints.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Rinse with water.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
- Rinse out mouth and then drink plenty of water.
- If symptoms persist consult doctor.
- 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.

(Contd. on page 3)

Version number 3

Reviewed on 04/29/2015

Trade name: Fluor Protector S

(Contd. of page 2)

5 *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
- · 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

· Handling:

• Precautions for safe handling

Only adequately trained personnel should handle this product. For use in dentistry only.

- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles:* Store in a cool location. Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store receptacle in a well ventilated area.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

(Contd. on page 4)

Printing date 05/19/2015

Version number 3

Reviewed on 04/29/2015

Trade name: Fluor Protector S

(Contd. of page 3)

	require monitoring at the workplace:
64-17-5 ethanol	1000
PEL Long-term value: 1900 mg/m ³ ,	
REL Long-term value: 1900 mg/m ³ ,	
TLV Short-term value: 1880 mg/m ³	, 1000 ppm
Additional information: The lists th	at were valid during the creation were used as basis.
Exposure controls	
Personal protective equipment:	
General protective and hygienic me	
Usual hygienic measures for dental Keep away from foodstuffs, beverag	
Wash hands before breaks and at th	
Breathing equipment:	,
Not required.	
In case of brief exposure or low pole use respiratory protective device the Recommended filter device for show Protection of hands:	
Trolection of nanas.	
Protective gloves	
degradation Penetration time of glove material The exact break through time has to	onsideration of the penetration times, rates of diffusion and the be found out by the manufacturer of the protective gloves and has to be
observed. Eye protection: Safety glasses	
	rties
Eye protection: Safety glasses Physical and chemical proper Information on basic physical and	
Eye protection: Safety glasses Physical and chemical proper Information on basic physical and General Information	
Eye protection: Safety glasses Physical and chemical proper Information on basic physical and General Information Appearance:	chemical properties
Eye protection: Safety glasses Physical and chemical proper Information on basic physical and General Information	
Eye protection: Safety glasses Physical and chemical proper Information on basic physical and General Information Appearance: Form:	chemical properties Fluid
Eye protection: Safety glasses Physical and chemical proper Information on basic physical and General Information Appearance: Form: Color:	chemical properties Fluid Colorless
Eye protection: Safety glasses Physical and chemical proper Information on basic physical and General Information Appearance: Form: Color: Odor:	chemical properties Fluid Colorless like peppermint
Eye protection: Safety glasses Physical and chemical proper Information on basic physical and General Information Appearance: Form: Color: Odor: Odour threshold: pH-value:	chemical properties Fluid Colorless like peppermint Not determined.
Eye protection: Safety glasses Physical and chemical proper Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odour threshold: pH-value: Change in condition Melting point/Melting range:	chemical properties Fluid Colorless like peppermint Not determined.
Eye protection: Safety glasses Physical and chemical proper Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odour threshold: pH-value: Change in condition	chemical properties Fluid Colorless like peppermint Not determined. Not applicable.

Reviewed on 04/29/2015

Trade name: Fluor Protector S

	(Contd. of page 4)
· Flammability (solid, gaseous):	Not applicable.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wa	ter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC content:	58.7 %
• Other information	No further relevant information available.

10 Stability and reactivity

• *Reactivity* No further relevant information available.

- · Chemical stability Stable under normal handling and storage conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Reacts with oxidizing agents.
- · Conditions to avoid No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: None under normal conditions of storage and use.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

81-07-2 1,2-benzisothiazol-3(2H)-one 1,1-dioxide

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 6)

3

US

Printing date 05/19/2015

Version number 3

Reviewed on 04/29/2015

(Contd. of page 5)

Trade name: Fluor Protector S

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (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.

- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, ADR, IMDG, IATA	UN1170
UN proper shipping name	
DOT, IATA	ETHANOL SOLUTION
ADR	1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION
IMDG	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport hazard class(es) DOT	
Class	3 Flammable liquids

Version number 3

Reviewed on 04/29/2015

Trade name: Fluor Protector S

	(Contd. of page
Label	3
ADR	
•	
3	
· Class	3 (F1) Flammable liquids
· Label	3
· IMDG, IATA	
3	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, ADR, IMDG, IATA	II
· Environmental hazards:	
• Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	33
· EMS Number:	F-E,S-D
· Transport in bulk according to Annex	c II of
MARPOL73/78 and the IBC Code	Not applicable.
· UN ''Model Regulation'':	UN1170, Ethanol solutions (Ethyl alcohol solutions), 3, II

15 Regulatory information

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

· Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

81-07-2 1,2-benzisothiazol-3(2H)-one 1,1-dioxide

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

(Contd. on page 8)

US

Version number 3

Reviewed on 04/29/2015

(Contd. of page 7)

A3

A4

Trade name: Fluor Protector S

· Chemicals known to cause developmental toxicity:

64-17-5 ethanol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

12125-01-8 ammonium fluoride

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

- *The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms*



- · Signal word Danger
- Hazard-determining components of labeling: ethanol
 Hazard statements
- Highly flammable liquid and vapor. May cause cancer.
- Precautionary statements
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Keep container tightly closed.
 Dispose of contents/container in accordance with local/regional/national/international regulations.
- · National regulations:
- · Other regulations, limitations and prohibitive regulations

The product is a medical device according to the Directive 93/42/EEC. This product is classified as a medical device under US and Canadian regulations and has been reviewed by the US Food and Drug Administration and Health Canada.

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

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.

Date of preparation / last revision 05/19/2015 / 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)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)

(Contd. on page 9)

US

Printing date 05/19/2015

Version number 3

Reviewed on 04/29/2015

Trade name: Fluor Protector S

VOC: Volatile Organic Compounds (USA, EU) Flam. Liq. 2: Flammable liquids, Hazard Category 2 Carc. 1A: Carcinogenicity, Hazard Category 1A

 \cdot * Data compared to the previous version altered.

(Contd. of page 8)

US