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Safety Data Sheet acc. to OSHA HCS

Printing date 11/16/2015

Version number 8

Reviewed on 11/09/2015

1 Identification

- · Product identifier
- · Trade name: IPS Model Sealer

· Application of the substance / the mixture Auxiliary for manufacture of dental prothesis

· 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. 2H225Highly flammable liquid and vapor.Eye Irrit. 2AH319Causes serious eye irritation.STOT SE 3H336May cause drowsiness or dizziness.

- · 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: ethyl acetate

cellulose nitrate damped with 2-propanol · Hazard statements

Highly flammable liquid and vapor. Causes serious eye irritation.

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(Contd. of page 1) May cause drowsiness or dizziness. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection. *Keep container tightly closed.* · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 3*Reactivity* = 1· HMIS-ratings (scale 0 - 4) HEALTH ² Health = 2FIRE 3 Fire = 3**REACTIVITY** 1 *Reactivity* = 1 · 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:

CAS: 141-78-6 ethyl acetate

CAS: 9004-70-0	cellulose nitrate damped with 2-propanol

4 First-aid measures

· Description of first aid measures

· 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:

Immediately wash with water and soap and rinse thoroughly.

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:

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.

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50-100% 15-<20%

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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.
- Do not flush with water or aqueous cleansing agents
- 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 Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.*
- 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.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 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.

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	omponents with limit values that require monitoring at the workplace: AS: 141-78-6 ethyl acetate
	EL Long-term value: 1400 mg/m ³ , 400 ppm
	EL Long-term value: 1400 mg/m ³ , 400 ppm
	<i>LV Long-term value: 1440 mg/m³, 400 ppm</i>
	Iditional information: The lists that were valid during the creation were used as basis.
	•
	xposure controls
	ersonal protective equipment: eneral protective and hygienic measures:
	sual hygienic measures for dental practice.
	eep away from foodstuffs, beverages and feed.
	mediately remove all soiled and contaminated clothing.
	ash hands before breaks and at the end of work.
	o not inhale gases / fumes / aerosols.
	void contact with the eyes and skin.
	reathing equipment:
	case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposi-
	e respiratory protective device that is independent of circulating air.
	lter A
	otection of hands:
Di the Se de M Bu Bu Th an re.	the glove material has to be impermeable and resistant to the product/ the substance/ the preparation. The to missing tests no recommendation to the glove material can be given for the product/ the preparation the chemical mixture. The election of the glove material on consideration of the penetration times, rates of diffusion and the the gradation the gradation the selection of the suitable gloves does not only depend on the material, but also on further marks of quant the selection of the suitable gloves does not only depend on the material, but also on further marks of quant the selection of the glove material can not be calculated in advance and has therefore to be checked prior to polication.
	enetration time of glove material
	ne exact break through time has to be found out by the manufacturer of the protective gloves and has to b
	pserved.
Ey	ve protection:
	Tightly sealed goggles

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· Information on basic physical and c	hemical properties
· General Information	
· Appearance:	r1 · 1
Form:	Fluid
Color: · Odor:	Colorless Characteristic
· Odor: · Odor threshold:	Not determined.
pH-value:	Not determined.
•	
· Change in condition	
Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 77 °C (171 °F)
01 0 0	
· Flash point:	-1 °C (30 °F)
· Ignition temperature:	460 °C (860 °F)
· 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:	2.1 Vol %
Upper:	11.5 Vol %
· Vapor pressure at 20 °C (68 °F):	97 hPa (73 mm Hg)
• Density at 20 •C (68 •F):	0.989 g/cm ³ (8.253 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
• Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	r; Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC content:	79.0 %
• 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 strong 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.

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11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

CAS: 141-78-6 ethyl acetate

Oral LD50 5620 mg/kg (rabbit)

Inhalative LC50/4 h 1600 mg/l (rat)

• on the skin: No irritant effect.

• on the eye: Irritating effect.

- Sensitization: No sensitizing effects known.
- Additional toxicological information: No further relevant information available.

· Carcinogenic categories

· NTP (National Toxicology Program)

None of the ingredients is listed.

· 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:

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

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

14 Transport information

· UN-Number

 $\cdot DOT$

UN1173

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ADR,RID,ADN, IMDG, IATA	1173	
· UN proper shipping name · ADR/RID/ADN · IMDG, IATA	1173 ETHYL ACETATE ETHYL ACETATE	
• Transport hazard class(es) • DOT		
· Class · Label	3 Flammable liquids 3	
· Laber · ADR/RID/ADN	5	
· Class	3 (F1) Flammable liquids	
· Label	3	
· IMDG, IATA		
· Class · Label	3 Flammable liquids 3	
· Packing group · DOT, ADR,RID,ADN, IMDG, IATA	II	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Flammable liquids 33 F-E,S-E	
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	I of Not applicable.	
· UN "Model Regulation":	UN1173, Ethyl acetate, 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):

None of the ingredients is listed.

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• TSCA (Toxic Substances Control Act):

CAS: 141-78-6 ethyl acetate

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

 \cdot 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.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· 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: ethyl acetate cellulose nitrate damped with 2-propanol
 Hazard statements

Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.

• Precautionary statements

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

Avoid breathing dust/fume/gas/mist/vapors/spray

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

Keep container tightly closed.

· 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 11/16/2015 / 7

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· 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 • * Data compared to the previous version altered. US