SAFETY DATA SHEETS

This SDS packet was issued with item:

074491445

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070441121 070441147

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

074491437 074491460 074491486 074491601 074491619 074565271

ACTIO MSDS ID: 997874 View Section : 12345678910111213141516 SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION (N/A) Product Name: iBOND Total Etch Distributor Name: Heraeus Kulzer GmbH Revision Date:12/22/2008 Trade Names: iBOND Total Etch Manufacturer Name: Heraeus Kulzer GmbH Address: Grnner Weg 11, D-63450 Hanau Information department: Dr. Hoffmann Tel.: +49 6081 959-313 Fax: +49 6081 959-223 Emergency information: Call +49 30 19240 (24 hours). General Use: Application of the substance/the preparation: Dental bonding material Email: marcus.hoffmann@heraeus.com Business Phone: 0800 4372522 NFPA ratings for USA (scale 0-4) HMIS-Ratings (Scale 0-4) HMIS Health: * Material Safety Data Sheet acc. to ISO/DIS 11014 NFPA 20 0 HMIS HEALTH2

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FIRE3

PPE

REACTIVITY0

Ingredient NameCAS#Ingredient Percent

Glutaral111-30-80 - 5% EC Index Number:1 Hazard Symbols:T, N

Risk Phrases: R 23/25-34-42/43-50 Comments: Dangerous component

Ethanol64-17-525 - 50% EC Index Number:1 Hazard Symbols:F

Risk Phrases:R 11

Comments: Dangerous component

2-hydroxyethyl methacrylate868-77-910 - 25%

EC Index Number:1 Hazard Symbols:Xi

Risk Phrases:R 36/38-43

Comments: Dangerous component

Poly(methacrylic-oligo-acrylic acid)0 - 5%

EC Index Number:1 Hazard Symbols:Xi Risk Phrases:R 36

Comments: Dangerous component

4-methacryloxyethyltrimellitic acid anhydride70293-55-90 - 5%

EC Index Number:1 Hazard Symbols:Xn

Risk Phrases:R 22-36/38-43 Comments:Dangerous component Additional information For the wording of the listed risk phrases refer to section 16.

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Hazard description: Xn Harmful

Information pertaining to particular dangers for man 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.

R 10 Flammable.

R 20/22 Harmful by inhalation and if swallowed.

R 37/38 Irritating to respiratory system and skin.

R 41 Risk of serious damage to eyes.

R 42/43 May cause sensitization by inhalation and skin contact.

Classification system:

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

NFPA ratings for USA (scale 0-4) Health = 2 Fire = 3 Reactivity = 0

HMIS-Ratings (Scale 0-4): Health = *2

Fire = 3

Reactivity = 0

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Eye Contact:Rinse opened eye for several minutes under running water. Then consult a doctor.

Skin Contact: Immediately wash with water and soap and rinse thoroughly.

Inhalation: Supply fresh air; consult doctor in case of complaints.

Ingestion: After swallowing: Immediately call a doctor.

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SECTION 5 : FIRE FIGHTING MEASURES: (N/A)

Explosion: Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

Flash Point:24 deg C (75 deg F)

Upper Flammable or Explosive Limit:15.0 Vol %

Lower Flammable or Explosive Limit:3.5 Vol %

Auto Ignition Temperature: 425 deg C (797 deg F)

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

Hazardous Combustion Byproducts: Special hazards caused by the material, its products of combustion or resulting gases: Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

Protective Equipment: Mount respiratory protective device. Auto igniting: Product is not selfigniting.

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Personal Precautions:Person-related safety precautions: Wear protective equipment. Keep unprotected persons away. Spill Cleanup Measures:Measures for cleaning/collecting: Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues). Send for recovery or disposal in suitable receptacles. Environmental Precautions:Measures for environmental protection:

Do not allow to penetrate the ground/soil.

No special measures required.

Additional information:

See Section 8 for information on personal protection

See Section 13 for disposal information.

To Top of page

Handling:Information for safe handling: Keep receptacles tightly sealed. 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.

Obtained by Global Safety Management, www.globalsafetynet.com, (877) 683-7460

equipment.

Protect against electrostatic charges. Storage:Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep cool, if possible (not above 25 deg C). Hygiene Practices: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

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Personal Protective Equipment
Routine Handling: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.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Hand Protection Description:Protection of hands:
If skin contact cannot be avoided, protective gloves are
recommended to avoid possible sensitization.
Solvent resistant gloves

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 not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Butyl rubber, BR

Eye/Face Protection: Tightly sealed goggles.

Protective Clothing/Body Protection: Body protection: Light weight protective clothing

Respiratory Protection:Breathing equipment: Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

Exposure Limits: Chemical Name: amorphes Siliziumdioxid

PEL: Short-term value: 80 mg/m3 as % SiO2

REL: 6 mg/m3

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TLV: 10 \text{ mg/m}3 (e)
     Additional information about design of technical systems: No
     further data; see Section 7.
     Additional information: The lists that were valid during the
     creation were used as basis.
     Ingredient Guidelines
     Ingredient: Ethanol
         Guideline Type: OSHA PEL-TWA
         Guideline Information: 1900 mg/m3, 1000 ppm
         Guideline Type: NIOSH REL-TWA
         Guideline Information: 1900 mg/m3, 1000 ppm
         Guideline Type: ACGIH TLV-TWA
         Guideline Information: 1880 mg/m3, 1000 ppm
     Ingredient: Glutaral
         Guideline Type:NIOSH REL-STEL
         Guideline Information: Short-term value: C 0.8 mg/m3, C 0.2
     ppm (SEN)
         Guideline Type: ACGIH TLV-TWA
         Guideline Information: Short-term value: C 0.2 mg/m3, C
     0.05 ppm (SEN)
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***********
     SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES: (N/A)
***************
     Physical State/Appearance:Form: Fluid
     Color:Yellowish
     Odor: Characteristic
     Vapor Pressure:At 20 deg C (68 deg F): 57 hPa (43 mm Hq)
     Flash Point:24 deg C (75 deg F)
     Auto Ignition Temperature: 425 deg C (797 deg F)
     Upper Explosive Limit: 15.0 Vol %
     Lower Explosive Limit: 3.5 Vol %
     Boiling Point: Undetermined
     Melting Point:Undetermined
     Solubility: In/Miscibility with Water: Not miscible or
     difficult to mix
     Density:Not determined
     Auto igniting: Product is not selfigniting.
     Danger of explosion: Product is not explosive. However,
     formation of explosive air/vapor mixtures are possible.
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********************
     SECTION 10 : STABILITY and REACTIVITY: (N/A)
*************
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Reactivity:Dangerous reactions: No dangerous reactions known Hazardous Decomposition Products:Dangerous products of decomposition: None

******************* SECTION 11: TOXICOLOGICAL INFORMATION: (N/A) ****************** Applies to All Ingredients: Sensitization: Sensitization possible through inhalation. Sensitization possible through skin contact. Irritation: Primary irritant effect: On the skin: Irritant to skin and mucous membranes. On the eye: Strong irritant with the danger of severe eye Other Toxicological Information: Additional toxicological information: Harmful To Top of page ******************* SECTION 12: ECOLOGICAL INFORMATION: (N/A) ****************** General notes: Avoid transfer into the environment. To Top of page *********** SECTION 13 : DISPOSAL CONSIDERATIONS: (N/A) ************* Waste Disposal: Product: Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. To Top of page ***************** SECTION 14: TRANSPORT INFORMATION: (N/A) ************** DOT Shipping Name: ETHANOL SOLUTION DOT UN Number: UN1170

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system.

DOT Hazard Technical Name: ETHANOL SOLUTION

DOT Hazard Class:3 DOT Packing Group:III

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DOT Subpart E Labeling Requirement: 3
     IATA Shipping Name: ETHANOL SOLUTION
     IATA Hazard Class:3
     IATA UN Number:1170
     IATA Packing Group: III
     IATA Class:3
     RID/ADR: Packaging group: III
     RID/ADR Shipping Name: Description of goods: 1170 ETHANOL
     SOLUTION
     RID/ADR Dangerous Goods Code: (Kemler): 30
     RID/ADR UN Number:1170
     RID/ADR Class:3 (F1) Flammable liquids
     RID/ADR Warning Sign/Label:3
     CGVS/GGVE/IMDG Technical Name: Propper shipping name: ETHANOL
     CGVS/GGVE/IMDG UN or NA Identification Number: 1170
     CGVS/GGVE/IMDG Class:3
     CGVS/GGVE/IMDG Packaging Group: III
     CGVS/GGVE/IMDG Subsidiary Risk Label: 3
     EMS Number: F-E, S-D
     Maritime Pollutant:No
     Air transport ICAO-TI: Propper shipping name: ETHANOL SOLUTION
     ICAO Class: 3
     UN/ID Number: 1170
     Label: 3
     Packaging group: III
To Top of page
      SECTION 15 : REGULATORY INFORMATION: (N/A)
*********
      Applies to All Ingredients:
      TSCA 8(b): Inventory Status: Medical devices are exempted from
      TSCA.
      Section 302:SARA Section 355 (extremely hazardous substances):
      None of the ingredients is listed.
      Section 313 Toxic Release Form: SARA Section 313 (specific
      toxic chemical listings):
      None of the ingredients is listed.
      State: Prop 65 - Chemicals known to cause cancer:
      None of the ingredients is listed.
      Risk Phrases: 10 Flammable.
      20/22 Harmful by inhalation and if swallowed.
      37/38 Irritating to respiratory system and skin.
      41 Risk of serious damage to eyes.
      42/43 May cause sensitization by inhalation and skin contact.
      Safety Phrase: 7/9 Keep container tightly closed and in a
      well-ventilated place.
      23 Do not breathe fumes
      24 Avoid contact with skin.
      26 In case of contact with eyes, rinse immediately with pler
      of water and seek medical advice.
      37/39 Wear suitable gloves and eye/face protection.
      45 In case of accident or if you feel unwell, seek medical
      advice immediately.
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Cancerogenity categories: EPA (Environmental Protection
Agency):
                 None of the ingredients is listed.
                 IARC (International Agency for Research on Cancer):
                 amorphes Siliziumdioxid 3
                 NTP (National Toxicology Program):
                 None of the ingredients is listed.
                 NIOSH-Ca (National Institute for Occupational Safety and
                 Health):
                 None of the ingredients is listed.
                 OSHA-Ca (Occupational Safety & Health Administration):
                 None of the ingredients is listed.
                 Markings according to EU guidelines:
                 The product has been classified and marked in accordance with
                 EU Directives / Ordinance on
                 Hazardous Materials
                 Code letter and hazard designation of product:
                 Xn Harmful
                 Hazard-determining components of labelling:
                 2-hydroxyethyl methacrylate
                 Glutaral
                 4-methacryloxyethyltrimellitic acid anhydride
                 Ethanol:
                 Cancerogenity categories: TLV (Threshold Limit Value
                 established by ACGIH):
                 Chemical Name: Ethanol
                 CAS: 64-17-5
                 Α4
                 Glutaral :
                 Cancerogenity categories: TLV (Threshold Limit Value
                 established by ACGIH):
                 Chemical Name: Glutaral
                 CAS: 111-30-8
                 A4
           To Top of page
           ************
                 SECTION 16 : ADDITIONAL INFORMATION: (N/A)
           ************
                 HMIS:
                      Health Hazard:2
                      Fire Hazard:3
                      Reactivity:0
                 NFPA:
                      Health:2
                      Fire Hazard:3
                      Reactivity:0
                 MSDS Revision Date:12/22/2008
```

* Data compared to the previous version altered.
MSDS Author:Department issuing MSDS: Safety department
Contact: Dr. Thiele
Tel.: (+49) 6181 35-3012
Email: ruediger.thiele@heraeus.com
NFPA ratings for USA (scale 0-4)
HMIS-Ratings (Scale 0-4)

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases
11 Highly flammable.

HMIS Health: *

22 Harmful if swallowed.

23/25 Toxic by inhalation and if swallowed.

34 Causes burns.

36 Irritating to eyes.

36/38 Irritating to eyes and skin.

42/43 May cause sensitization by inhalation and skin contact.

43 May cause sensitization by skin contact.

50 Very toxic to aquatic organisms.

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Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 08/24/2010

Reviewed on 08/23/2010

Tel.: 0800 4372522

1 Identification of substance:

- · Product details:
 - Trade name: iBOND Total Etch
 - · Application of the substance / the preparation Dental bonding material
 - · Manufacturer/Supplier: Heraeus Kulzer GmbH

Grüner Weg 11, D-63450 Hanau

Information department:

Dr. Hoffmann

Tel.: +49 6081 959-313

Fax: +49 6081 959-223

email: marcus.hoffmann@heraeus.com

· Emergency information:

Call "Poisining Emergency Center Berlin": +49 30 30686 790 (24 hours, support in english and german language)

2 Hazards identification

· Hazard description:



Xn Harmful

Information pertaining to particular dangers for man 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.

R 10 Flammable.

R 20/22 Harmful by inhalation and if swallowed.

R 37/38 Irritating to respiratory system and skin.

R 41 Risk of serious damage to eyes.

R 42/43 May cause sensitization by inhalation and skin contact.

· Classification system

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

NFPA ratings for USA (scale 0-4)



Health = 2 Fire = 3 Reactivity = 0

· HMIS-Ratings (Scale 0-4)

HEALTH FIRE 3

Health = *2 Fire = 3 REACTIVITY | Reactivity = 0

3 Composition/Data on components:

· Chemical characterization

Dangerous components:		
64-17-5 ethanol	F; R 11	25-50%
868-77-9 2-hydroxyethyl methacrylate	XI; R 36/38-43	10-25%



Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 08/24/2010

Reviewed on 08/23/2010

Trade name: iBOND Total Etch

	(Cont	d. of page 1)
Poly(methacrylic-oligo-acrylic acid)	Xī; R 36	0-5%
70293-55-9 4-methacryloxyethyltrimellitic acid anhydride	Xn, Xi; R 22-36/38-43	0-5%
111-30-8 glutaral	T. C. N; R 23/25-34-42/43-50	0-5%
· Additional information For the wording of the listed risk	phrases refer to section 16.	

4 First aid measures

- After inhalation Supply fresh air, consult doctor in case of complaints.
- After skin contact immediately wash with water and soap and rinse thoroughly.

· After eve contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing immediately call a doctor.

5 Fire fighting measures

- Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant toam.
- For safety reasons unsultable extinguishing agents Water with full jet.
- Special hazards caused by the material, its products of combustion or resulting gases: Can form explosive gas-air mixtures.
- Formation of toxic gases is possible during heating or in case of fire.
- · Protective equipment: Mount respiratory protective device.
- Additional Information -

6 Accidental release measures

- · Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- · Measures for environmental protection:

Do not allow to penetrate the ground/soil.

No special measures required.

• Measures for cleaning/collecting: Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).

Send for recovery or disposal in suitable receptacles.

· Additional information:

See Section 13 for disposel information.

See Section 8 for information on personal protection equipment.

7 Handling and storage

- ·Handling
 - · Information for safe handling:

Keep receptacles tightly sealed.

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.

· Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

(Contd. on page 3)



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Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 08/24/2010

Reviewed on 08/23/2010

Trade name: iBOND Total Etch

(Contd. of page 2) Further information about storage conditions; Keep cool, if possible (not above 25 °C).

8 Exposure controls and personal protection

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

· Components with limit values that require monitoring at the workplace:

64-17-5 ethanol

PEL 1900 mg/m³, 1000 ppm REL 1900 mg/m³, 1000 ppm TLV 1880 mg/m³, 1000 ppm

111-30-8 glutaral

REL Short-term value: C 0.8 mg/m³, C 0.2 ppm TLV Short-term value: C 0.2 mg/m³, C 0.05 ppm SEN

amorphes Siliziumdioxid

PEL Short-term value: 80 mg/m²

as % SiO2 REL 6 mg/m³ TLV 10 mg/m³

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

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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Breathing equipment:

Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (fitter A).

· Protection of hands:

If skin contact cannot be avoided, protective gloves are recommended to

avoid possible sensitization.

Solvent resistant gloves

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 not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR

- Eye protection: Tightly sealed goggles.

· Body protection: Light weight protective clothing

1154 (Contd. on page 4)



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Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 08/24/2010

Reviewed on 08/23/2010

Trade name: iBOND Total Etch

(Contd. of page 3)

General Information	
· Form: · Color: · Odar:	Fluid Yellowish Characteristic
Change in condition - Melting point/Melting range: - Boiling point/Boiling range:	: undetermined undetermined
Flash point:	24°C (75°F)
Ignition temperature:	425°C (797°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: · Upper:	3.5 Vol % 15.0 Vol %
Vapor pressure at 20°C (68°F):	57 hPa (43 mm Hg)
Density:	Not determined
Solubility in / Miscibility with Water:	Not miscible or difficult to mix

10 Stability and reactivity

- Dangerous reactions No dangerous reactions known
- Dangerous products of decomposition: none Additional information: -

11 Toxicological information

- · Acute toxicity:
 - Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - on the eye: Strong imitant with the danger of severe eye injury.
 - Sensitization:
 - Sensitization possible through inhalation.
 - Sensitization possible through skin contact.
- · Additional toxicological information: Hermful

12 Ecological information:

General notes: Avoid transfer into the environment.

13 Disposal considerations

- · Product:
 - Recommendation

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

(Contd. on page 5)

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Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 08/24/2010

Reviewed on 08/23/2010

Trade name: iBOND Total Etch

Uncleaned packagings:

(Contd. of page 4)

Recommendation: Disposal must be made according to official regulations.

14 Transport information

· DOT regulations:



· Hazard class:

· Identification number:

UN1170

· Packing group:

· Proper shipping name (technical name): ETHANOL SOLUTION · Label

· Land transport ADR/RID (cross-border)



· ADR/RID class:

3 (F1) Flammable liquids

· Danger code (Kemler): · UN-Number:

30 1170

Packaging group:

111

·Label

Description of goods:

1170 ETHANOL SOLUTION

· Maritime transport IMDG:



· IMDG Class:

· UN Number:

1170

Label

3

· Packaging group:

EMS Number:

F-E,S-D

· Marine pollutant:

No

· Propper shipping name:

ETHANOL SOLUTION

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class:

· UN/ID Number: · Label

1170 3

· Packaging group: · Propper shipping name:

ETHANOL SOLUTION

(Contd. on page 6)



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Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 08/24/2010

Reviewed on 08/23/2010

(Contd. of page 5) **Transport/Additional information: -
15 Regulations
SARA Section 355 (extremely hazardous substances) None of the ingredients is listed.
SARA Section 313 (specific toxic chemical listings) None of the ingredients is listed.
TSCA (Toxic Substances Control Act) Medical devices are exempted from TSCA. Prop 65 - Chemicals known to cause cancer
None of the ingredients is listed.
Cancerogenity categories EPA (Environmental Protection Agency) None of the ingredients is listed.
IARC (International Agency for Research on Cancer)
amorphes Siliziumdioxid 3 NTP (National Toxicology Program)
None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH)
64-17-5 ethanol A4 111-30-8 glutaral A4
NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.
Markings according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials
· Code letter and hazard designation of product: Xn Harmful
· Hazard-determining components of labelling: 2-hydroxyethyl methacrylate glutaral 4-methacryloxyethyltrimellitic acid anhydride
Risk phrases: 10 Flammable. 20/22 Harmful by inhalation and if swallowed. 37/38 Imitating to respiratory system and skin. 41 Risk of serious damage to eyes. 42/43 May cause sensitization by inhalation and skin contact.
Safety phrases: 7/9 Keep container tightly closed and in a well-ventifated place. 23 Do not breathe fumes 24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 37/39 Wear suitable gloves and eyerlace protection. (Contd. on page 7)



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Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 08/24/2010

Reviewed on 08/23/2010

Trade name: iBOND Total Etch

45 In case of accident or if you feel unwell, seek medical advice immediately. (Conid. of page 8)

16 Other information:

These date are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Relevant R-phrases
- Highly flammable.
- Harmful if swallowed.
- 23/25 Toxic by inhalation and if swallowed.
- 34 Causes burns.
- 36 Irritating to eyes. 36/38 Irritating to eyes and skin.
- 42/43 May cause sensitization by inhelation and skin contact.
- 43 May cause sensitization by skin contact.
- 50 Very toxic to aquatic organisms.
- · Department issuing MSDS: Safety department
- Contact:
- Dr. Thiele Tel.: (+49) 6181 35-3012 email: ruediger.thiele@heraeus.com
- · * Data compared to the previous version altered.