SAFETY DATA SHEETS

This SDS packet was issued with item:

070441139

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

070441105 070441113



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/02/2015

Reviewed on 06/02/2015

Tel.: 0800 4372522

1 Identification

- · Product identifier
 - · Trade name: iBond Universal
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Dental bonding material
- Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Heraeus Kulzer GmbH

Grüner Weg 11, D-63450 Hanau

· Information department:

Marc Henn

Tel. +1 (574) 2995444 / Fax: +1 (574) 2912542

e-mail: marc.henn@kulzer-dental.com

· Emergency telephone number:

Emergency CONTACT (24-Hour-Number) GBK/Infotrac ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Lig. 2 H225 Highly flammable liquid and vapor.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

· Label elements

GHS label elements

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

· Hazard pictograms





GHS02 GHS07

· Signal word Danger

· Hazard-determining components of labeling:

4-methacryloxyethyltrimellitic acid anhydride

Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

Precautionary statements

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

Use explosion-proof electrical/ventilating/lighting/equipment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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Safety Data Sheet acc. to OSHA HCS

Printing date 06/02/2015

Reviewed on 06/02/2015

Trade name: iBond Universal

· Classification system NFPA ratings for USA (scale 0-4)



Health = 1 Fire = 3 Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 1 Fire = 3REACTIVITY | Reactivity = 0

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

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: -

L	· Dangerous components:		
Γ	67-64-1	acetone	
Γ	70203-55-0	4-methacrylovyethyltrimellitic acid anhyo	

บ∠ษร-จจ-ษ | 4-methacryloxyethyltrimellitic acid anhydride

25-50% 10-25%

4 First-aid measures

- · Description of first aid measures
 - After inhalation

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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.

· 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

· Extinguishing media

Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant

· For safety reasons unsuitable extinguishing agents Water with full jet.

· Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

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

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Safety Data Sheet acc. to OSHA HCS

Printing date 06/02/2015

Reviewed on 06/02/2015

Trade name: iBond Universal

Advice for firefighters

(Contd. of page 2)

- · Protective equipment: No special measures required.
- Additional information -

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
- Methods and material for containment and cleaning up:
- Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).
- Ensure adequate ventilation.
- Send for recovery or disposal in suitable receptacles.

- 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

- · Precautions for safe handling Keep receptacles tightly sealed.
 - 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.
 - Protect from exposure to the light.
 - Store in cool, dry conditions in well sealed receptacles.
- 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.
- · Control parameters

	itoring at the workplace:

67-64-1 acetone

PEL | 2400 mg/m³, 1000 ppm

REL 590 ma/m³, 250 ppm

Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm Long-term value: (1188) NIC-475 mg/m³, (500) NIC-200 ppm

Ingredients with biological limit values:

67-64-1 acetone

BEI 50 mg/L

urine`

end of shift

Acetone (nonspecific)

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Safety Data Sheet acc. to OSHA HCS

Printing date 06/02/2015

Reviewed on 06/02/2015

Trade name: iBond Universal

(Contd. of page 3)

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

Exposure controls

Personal protective equipment

General protective and hygienic measures

Avoid contact with the eyes.

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.

Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

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

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

avoid possible sensitization.

· 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 gloves made of the following materials are suitable:

Butyl rubber, BR Nitrile rubber, NBR

Eye protection: Safety glasses

· Body protection: Light weight protective clothing

9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liquid Color: Clear Odor: Characteristic · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: undetermined Boiling point/Boiling range: undetermined · Flash point: -19 °C (-2 °F) · Flammability (solid, gaseous) Not applicable. · Ignition temperature: Decomposition temperature: Not determined. · Auto igniting: Product is not selfigniting. (Contd. on page 5)



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/02/2015

Reviewed on 06/02/2015

Trade name: iBond Universal

	(Contd. of page
Danger of explosion:	Product is not explosive. However, formation o explosive air/vapor mixtures are possible.
Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure:	Not determined.
Density: Relative density Vapour density Evaporation rate	Not determined Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Partly miscible
Partition coefficient (n-octanol	//water): Not determined.
· Viscosity: · dynamic: · kinematic:	Not determined. Not determined.
Solvent content: Water:	19.0 %
Solids content: Other information	19.1 % No further relevant information available.

10 Stability and reactivity

- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
 · Hazardous decomposition products: none
 · Additional information: -

11 Toxicological information

Information on toxicological effects Acute toxicity:

·L	D/LC5	0 values that are relevant for classification:	
	67-64-1 acetone		
Oral	LD50	5800 mg/kg (rat)	
Dermal	LD50	20000 mg/kg (rabbit)	
41137-60-4 diurethandimethacrylate			
Oral	LD50	>5000 mg/kg (rat)	
70293-55-9 4-methacryloxyethyltrimellitic acid anhydride			
Oral	LD50	> 2000 mg/kg (mouse)	
Dermal	LD50	> 2000 mg/kg (mouse)	
. 0	riman	rirritant offact:	

- Primary irritant effect:
 - on the skin: No irritant effect. on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information: Irritant

(Contd. on page 6)

Heraeus Kulzer

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Safety Data Sheet acc. to OSHA HCS

Printing date 06/02/2015

Reviewed on 06/02/2015

Trade name: iBond Universal

· Carcinogenic categories

(Contd. of page 5)

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

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:

67-64-1 acetone

EC50/48h 6100 mg/l (daphnia)

LC50/96h | 5540 mg/l (fish)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
 - Additional ecological information:
 - General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- 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

Disposal must be made according to official regulations.

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

DOT, ADR, IMDG, IATA UN1090

UN proper shipping name · DOT, IMDG, IATA · ADR ACETONE, mixture 1090 ACETONE, mixture

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Safety Data Sheet acc. to OSHA HCS

Printing date 06/02/2015

Reviewed on 06/02/2015

Trade name: iBond Universal

· Transport hazard class(es)	(Cor	ntd. of pag
DOT		
Class Label ADR	3 Flammable liquids 3	
Class Label IMDG, IATA	3 (F1) Flammable liquids	
A CONTRACTOR OF THE CONTRACTOR		
Class Label	3 Flammable liquids	
Packing group DOT, ADR, IMDG, IATA	3	
Environmental hazards: Marine pollutant:	No	
Special precautions for user Danger code (Kemler): EMS Number:	Warning: Flammable liquids 33 F-E,S-D	
Transport in bulk according to Anne MARPOL73/78 and the IBC Code	ex II of Not applicable.	
· Transport/Additional information	: -	
UN "Model Regulation":	UN1090, Acetone, mixture, 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.

TSCA (Toxic Substances Control Act) Medical devices are exempted from TSCA.

· Cancerogenity categories

TLV (Threshold Limit Value established by ACGIH)

67-64-1 acetone

GHS label elements

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

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Safety Data Sheet acc. to OSHA HCS

Printing date 06/02/2015

Reviewed on 06/02/2015

Trade name: iBond Universal

Hazard pictograms





GHS02

· Signal word Danger

Hazard-determining components of labeling:

4-methacryloxyethyltrimellitic acid anhydride

Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.

Precautionary statements

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

Use explosion-proof electrical/ventilating/lighting/equipment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international

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

16 Other information

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.

Date of preparation / last revision 06/02/2015 /

Abbreviations and acronyms:

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

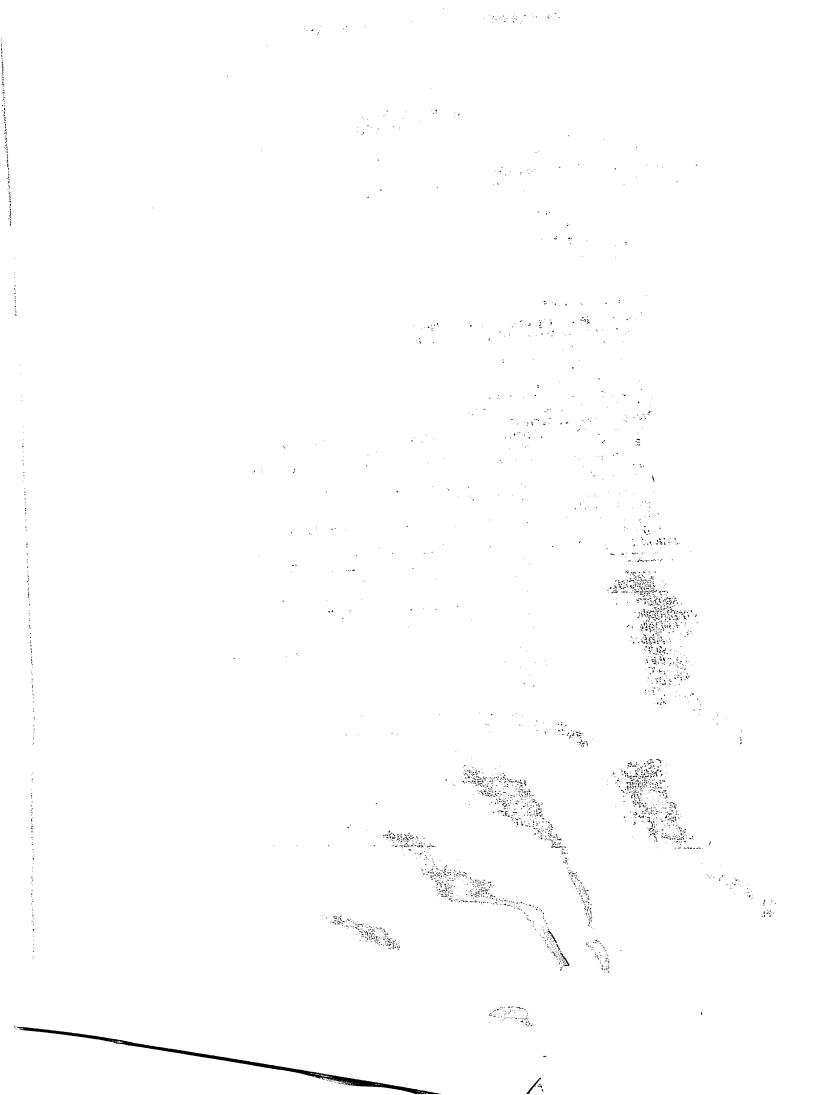
CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
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. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
** Data compared to the previous version altered

* Data compared to the previous version altered.





Tel.: 0800 4372522

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Safety Data Sheet acc. to OSHA HCS

Printing date 09/01/2015 Reviewed on 09/01/2015

1 Identification

- · Product identifier
 - · Trade name: iBond Universal
 - · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Dental bonding material
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Heraeus Kulzer GmbH

Grüner Weg 11, D-63450 Hanau

· Information department:

Marc Henn

Tel. +1 (574) 2995444 / Fax: +1 (574) 2912542

e-mail: marc.henn@kulzer-dental.com

Emergency telephone number: Emergency CONTACT (24-Hour-Number) GBK/Infotrac ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

Label elements

GHS label elements

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

· Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

4-methacryloxyethyltrimellitic acid anhydride acetone

· Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

· Précautionary statements

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

Use explosion-proof electrical/ventilating/lighting/equipment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

(Contd. on page 2)



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Safety Data Sheet acc. to OSHA HCS

Printing date 09/01/2015 Reviewed on 09/01/2015

Trade name: iBond Universal

(Contd. of page 1)

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system
 - · NFPA ratings for USA (scale 0-4)



Health = 1 Fire = 3 Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 1 Fire = 3 Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - · Description: -
 - Dangerous components:

67-64-1 acetone
70293-55-9 4-methacryloxyethyltrimellitic acid anhydride

25-50% 10-25%

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

4 First-aid measures

- · Description of first aid measures
 - · After inhalation

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact If skin irritation continues, consult a doctor.
- · 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.

5 Fire-fighting measures

- · Extinguishing media
 - Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam

- · For safety reasons unsuitable extinguishing agents Water with full jet.
- · Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

(Contd. on page 3)

USA



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Safety Data Sheet acc. to OSHA HCS

Printing date 09/01/2015 Reviewed on 09/01/2015

Trade name: iBond Universal

(Contd. of page 2)

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

- · Advice for firefighters
 - · Protective equipment: No special measures required.
- · Additional information -

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions: Prevent seepage into sewage system, workpits and cellars.

Methods and material for containment and cleaning up:

Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues). Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

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 Keep receptacles tightly sealed.
 - 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.

Protect from exposure to the light.

Store in cool, dry conditions in well sealed receptacles.

· 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.
- · Control parameters
 - · Components with limit values that require monitoring at the workplace:

67-64-1 acetone

PEL | 2400 mg/m³, 1000 ppm

REL 590 mg/m³, 250 ppm

TLV Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm Long-term value: (1188) NIC-475 mg/m³, (500) NIC-200 ppm

BEÏ

(Contd. on page 4)

USA -



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Safety Data Sheet acc. to OSHA HCS

Printing date 09/01/2015 Reviewed on 09/01/2015

Trade name: iBond Universal

(Contd. of page 3)

· Ingredients with biological limit values:

67-64-1 acetone

BEI 50 mg/L urine

end of shift

Acetone (nonspecific)

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

· Exposure controls

Personal protective equipment

General protective and hygienic measures

Avoid contact with the eyes.

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.

· Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

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

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

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 gloves made of the following materials are suitable:

Butyl rubber, BR Nitrile rubber, NBR

- · Eye protection: Safety glasses
- · Body protection: Light weight protective clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

- General Information
 - · Appearance:

Form:
Color:
Clear
Characteristic
Odour threshold:
Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: undetermined
 Boiling point/Boiling range: undetermined

· Flash point: -19 °C (-2 °F)

(Contd. on page 5)

USA



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Safety Data Sheet acc. to OSHA HCS

Printing date 09/01/2015 Reviewed on 09/01/2015

Trade name: iBond Universal

	(Contd. of page
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	
· Decomposition temperature:	Not determined.
· 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:	Not determined. Not determined.
· Vapor pressure:	Not determined.
 Density: Relative density Vapour density Evaporation rate 	Not determined Not determined. Not determined. Not determined.
· Solubility in / Miscibility with · Water:	Partly miscible
· Partition coefficient (n-octanol/w	ater): Not determined.
Viscosity: dynamic: kinematic:	Not determined. Not determined.
· Solvent content: · Water:	19.0 %
· Solids content: Other information	19.1 % No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: none
- · Additional information: -

11 Toxicological information

- · Information on toxicological effects

· Acute toxi	· Acute toxicity:		
· LD/LC5	· LD/LC50 values that are relevant for classification:		
67-64-1 aceto	67-64-1 acetone		
Oral LD50	5800 mg/kg (rat)		
Dermal LD50	20000 mg/kg (rabbit)		
41137-60-4 di	41137-60-4 diurethandimethacrylate		
Oral LD50	>5000 mg/kg (rat)		
	70293-55-9 4-methacryloxyethyltrimellitic acid anhydride		
Oral LD50	> 2000 mg/kg (mouse)		

(Contd. on page 6)



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Safety Data Sheet acc. to OSHA HCS

Printing date 09/01/2015 Reviewed on 09/01/2015

Trade name: iBond Universal

(Contd. of page 5)

Dermal LD50 > 2000 mg/kg (mouse)

- · Primary irritant effect:
 - · on the skin: No irritant effect.
 - · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information: Irritant
 - · Carcinogenic categories
 - IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· 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:

67-64-1 acetone

EC50/48h 6100 mg/l (daphnia)

LC50/96h | 5540 mg/l (fish)

- · 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:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · 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

Disposal must be made according to official regulations.

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

· **DOT, ADR, IMDG, IATA** UN1090

(Contd. on page 7)



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Safety Data Sheet acc. to OSHA HCS

Printing date 09/01/2015 Reviewed on 09/01/2015

Trade name: iBond Universal

(Contd. of page 6) · UN proper shipping name · DOT, IMDG, IATA ACETONE, mixture · ADŔ 1090 ACETONE, mixture · Transport hazard class(es) · DOT · Class 3 Flammable liquids · Label · ADR 3 (F1) Flammable liquids · Class · Label · IMDG, IATA · Class 3 Flammable liquids · Label · Packing group · DOT, ADR, IMDG, IATA 11 · 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 II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · UN "Model Regulation": UN1090, Acetone, mixture, 3, II

15 Regulatory information

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

· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act) Medical devices are exempted from TSCA.

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· Cancerogenity categories

TLV (Threshold Limit Value established by ACGIH)

67-64-1 acetone

A4

GHS label elements

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

Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

4-methacryloxyethyltrimellitic acid anhydride acetone

· Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

Precautionary statements

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

Use explosion-proof electrical/ventilating/lighting/equipment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

16 Other information

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.

Date of preparation / last revision 09/01/2015 / -

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

ACGIH. American Conference of Governmental Industrial Hygerists
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)
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
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

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STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 \cdot * Data compared to the previous version altered.