

SAFETY DATA SHEET

BOND

It is regulated in accordance with the provisions of the "Republic of Türkiye Ministry of Environment, Urbanization and Climate, Regulation on Safety Data Sheets for Harmful Substances and Mixtures" dated 13 December 2014 and no 29204.

1. IDENTITY OF THE SUBSTANCE/MIXTURE AND THE COMPANY/BUSINESS OWNER

1.1. Substance – Identity of the mixture

Product Name : Bond

1.2 Use of the Substance or Mixture and Unrecommended Uses

Use : Light-Cured One-Component 7th Generation Universal Dental Adhesive

1.3 Safety Data Sheet Supplier's Information

Supplier : FSM Dental MED. MAK. SAN. TIC.LTD.

Ivedik OSB Mah. 1333 Cadde No:11/2

Yenimahalle/ANKARA

info@fsm dental.com

www.fsm dental.com

Contact Person : Nahide SAZLI

nahidebicer19@gmail.com / nahide@fsm dental.com

Emergency Phone Number

Firm : 0 535 464 67 74

Emergency Health Services : 112

National Poison Information Center (UZEM) : 114

2. HAZARD DEFINITION

2.1. Classification of Substance and Mixture

Physical and Chemical Hazards: Flame. Liquid 2: H225

Human Health : Skin Irr.2: H315; Eye Irr. 2: H319; Skin Sensitivity. 1B: H317
Acute Tox.3: H335; Acute Tox. 4: H302; Skin Irr. 2; H303
; STOR EXP. 3:H336 (specific target organ repeated exposure)

Environment : Not classified as harmful.

2.2. Label Elements

Labeling :

Edition No : 01
Form No : 01/EN

SAFETY DATA SHEET

BOND

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**Warning Word**

: Attention; Danger

Hazard Statements

: H315 Causes skin irritation.

H317 Causes allergic skin reactions.

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

H335 May cause respiratory tract irritation.

H336 May cause drowsiness or dizziness.

Precautionary Statements

: P261 Inhaling dust/fumes/gases/mists/vapours/spray avoid.

P264 Wash hands thoroughly after handling.

P272 Do not take contaminated clothing out of the workplace.

P280 Protective gloves/protective clothing/eye protection/ use face protection.

P302+P352 IF IN CONTACT WITH SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN CONTACT WITH THE EYE: A few minutes with water rinse carefully. If it is attached and easy to do, remove the contact lenses. Continue to rinse.

P321 Special intervention required (see label).

P332+P313 In case of skin irritation: Seek medical attention.

P333+P313 In case of skin irritation or itching: Get Medical help /intervention.

P337+P313 If eye irritation persists: Seek medical attention/care.

P362 Remove contaminated clothing and Wash before reuse

P363 Wash contaminated clothing before reuse.

P501 Dispose of the contents/container according to national regulations.

P362 Remove contaminated clothing and Wash before reuse.

P301+P312 IF SWALLOWED: Call PHONE 114, NATIONAL POISON ADVISORY CENTER, or Call the doctor/physician.

P330 Rinse your mouth.

P312 If you feel unwell, Call PHONE 114, NATIONAL POISON ADVISORY, or the doctor/physician.

P322 Special precautions (see label).

SAFETY DATA SHEET

BOND

It is regulated in accordance with the provisions of the "Republic of Türkiye Ministry of Environment and Urbanization, Regulation on Safety Data Sheets for Harmful Substances and Mixtures" dated 13 December 2014 and no 29204.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Move the injured person to fresh air and keep it in a comfortable position so that it can breathe easily.

P403+P233 Store in a well-ventilated area. Keep the container tightly closed.

P405 Store under lock and key.

2.3 Other Damages

There is no other foreseen danger.

3. INFORMATION ABOUT ITS COMPOSITION/CONTENT

NAME	CAS NO	EC NO	CONCENTRATION (%)	CLASSIFICATION (T.C. 28848)
UDMA	72869-86-4		20-30 %	Skin Irr. 2: H315; Eye Irr. 2: H319; Acute Tox.3: H335; Skin Sensit. 1B: H317
TEDGMA	109-16-0		1-10 %	Skin Sensit. 1B: H317
4- Meta	70293-55-9	274-547-0	<=100 %	Acute Tox. 4: H302; Skin Irr.2: H315; Eye Irr. 2: H319; Skin Sensit. 1B: H317
10-MDP	85590-00-7		95 - 100%	Skin Irr. 2; H303 Acute Tox.3: H335
Acetone	67-64-1	200-662-2	100%	Flame. Liquid 2: H225; Eye Irr. 2: H319; STOR EXP. 3:H336
Silane	68611-44-9			

4. FIRST AID MEASURES

4.1. Description of First Aid Measures

General Information : In case of continuation of any ailment, Contact the doctor

Breathing : Remove the exposed person to fresh air immediately.
Provide rest, warmth and fresh air. Contact doctor.
As required when breathing difficulties are experienced

SAFETY DATA SHEET

BOND

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oxygen can be given to the exposed person by trained personnel

Swallowing : Do not induce vomiting. Never give anything liquid to an unconscious
Take the exposed victim to another location. Contact to the doctor immediately

Skin Contact : Remove contaminated clothing. Immediately water the skin and wash with soap. If irritation persists after washing, consult a doctor.

Contact with eyes : If there are contact lenses, they should be removed before washing the eyes. By opening the eyelids, immediately wash the eyes with plenty of water. Continue rinsing for at least 15 minutes. If symptoms appear after washing, immediately consult a doctor.

4.2. Important Acute and Subsequent Symptoms and Effects

Not specified.

4.3. First Symptoms of the Need for Medical Attention and Special Treatment

No specific treatment is prescribed. Apply treatment according to symptoms

5. FIRE FIGHTING MEASURES

5.1. Fire Extinguishers

Suitable Fire extinguishers : Carbon dioxide, water spray, alcohol-resistant foam, dry chemical

Unsuitable Fire Extinguishers: High volume water jet

5.2. Special Damages Caused by the Substance or Mixture

Fire may cause the formation of toxic gases/vapors.

Carbon dioxide (Co2), Carbon monoxide (Co)

5.3. Protective Equipment for Firefighting Teams

Avoid inhaling fire vapor. Containers close to the place of fire immediately to another place

It must be taken away or cooled with water. container, if it is possible to do it without any danger,

Remove from the fire area. Prevent firefighting water from flowing into sewers, waterways.

5.4. Protective equipment

In the event of a fire, use self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE PRECAUTIONS

SAFETY DATA SHEET

BOND

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6.1. Personal Protective Measures

Wear protective clothing as shown in section 8 of this safety data sheet..

Avoid contact with eyes and skin. Do not inhale their vapors. Provide adequate ventilation.

6.2. Environmental Precautions

Do not pour into sewers, soil, or waterways. Spilled substance 13. Collect and dispose of as instructed in the section.

6.3. Collection and Cleaning Processes

If there is no risk, stop the leak. Collect debris with a non-flammable, absorbent material such as sand, soil, vermiculite and place them in sealed containers for disposal.

6.4. References to Other Sections

See chapter 8 for personal protection.

For additional information on harm to health, see section 11.

See section 13 for waste disposal.

7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Do not inhale its vapor. Avoid contact with eyes and skin. Keep away from heat and flammable sources. It should be ensured that there is good ventilation. Do not eat anything during use, do not drink and do not smoke. Consider the necessary chemical hygiene measures. Wash your hands and contaminated areas before leaving the workplace. Take precautions against static electricity discharges. Only use tools with antistatic properties.

7.2. Conditions for Secure Storage, Including Disputes

Store the item in its original packaging in dry and cool places. The area is well ventilated
Make sure that it is. Avoid direct sunlight. Keep containers in an upright position to avoid possible leaks.

7.3. Specific End Uses

The defined uses of this product are detailed in section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

SAFETY DATA SHEET BOND

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8.1. Control Parameters

Occupational exposure limits

ACETONE

Limit Value (TWA 8-hours): 500 ppm 1210 mg/m³ Exposure Controls

Personal Protective Equipment :



Respiratory Protection the air

: When working in closed and poorly ventilated environments, Equipped respiratory protection will be used.

Eye / Face Protection

: Wear approved safety goggles or a face shield.

Protection of the Skin

: Wear an apron or protective clothing in case of contact.

Hand Protection

: Wear protective gloves. The most suitable glove, glove It should be selected in consultation with its distributor. The glove maker said that the glove material will be able to give information about permeability/deterioration time.

Health Precautions

: Wash your hands at each shift change and before eating, before smoking and before going to the bathroom. In case of contamination of the skin wash off immediately with water. During use, do not eat, drink and smoke. Remove all of the contaminated clothes immediately. Keep contaminated clothing separate and do not reuse it wash it first.

Environmental Exposure Controls : Comply with local and national laws.

SAFETY DATA SHEET

BOND

It is regulated in accordance with the provisions of the "Republic of Türkiye Ministry of Environment and Urbanization, Regulation on Safety Data Sheets for Harmful Substances and Mixtures" dated 13 December 2014 and no 29204.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical

Properties Appearance	: Liquid
Colour	: Yellowish
Smell	: Odorless.
pH Value	: No information available.
Resolution	: It is insoluble in water.
Boiling point	: No information can be found.
Melting point	: No information available.
Flash Point	: No information available.
Flash Point	: No information available.
Explosiveness Limits	: No information available.
Autoignition Temperature	: No information available.
Evaporation Rate	: No information available.
Vapor Pressure	: No information available.
Relative Vapor Density	: No information available.
Density	: No information can be found.
Coefficient of Dispersion (n-octanol/water)	: No information available.
Viscosity	: No information available.

10. STABILITY AND REACTION

10.1. Reaction

The following materials may react violently with the product: Oxidizing agents. Organic peroxides/hydroperoxides. See other parts of this section for more detailed information.

10.2. Chemical Stability

It is stable under normal temperature conditions and under recommended usage conditions. It is stable under the stipulated storage conditions.

10.3. Possibility of Harmful Reactions

The following substances may react strongly with the product: Oxidizing agents. Organic peroxides/hydroperoxides.

Edition No : 01
Form No : 01/EN

SAFETY DATA SHEET

BOND

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10.4. Situations to Avoid

Protect from high heat, flames, sparks and direct sunlight.

10.5. Substances to avoid

Oxidizing agents. Organic peroxides/hydroperoxides.

10.6. Harmful Decomposition Products

Hazardous decomposition products are unknown.

11. TOXICOLOGY INFORMATION

11.1. Information on toxic effects

Acute Toxicity :

Tri-Edma (Cas: 109-16-0)

Acute Toxic Dose 1 LD50 10,937 mg/kg (Oral-rat) Acute

Toxic Dose 2 LD50 >2000 mg/kg (Dermal-mouse)

Acute Toxic Dose 3 TDLo 7.889 mg/kg (Oral-rat)

Urethan Dimethactylate (Cas: 72869-86-4)

Acute Toxic Dose 1 LD50 >5000 mg/kg (Oral-rat)

4-meta (Cas: 70293-55-9)

Acute Toxic Dose 1 ATE >500 mg/kg (Oral-rat)

Aceton (Cas: 67-64-1)

Acute Toxic Dose 1 LD₅₀ >5800 mg/kg (Oral-rat)

Acute Toxic Dose 2 LD50 >20000 mg/kg (Dermal-Rabbit)

Silan (Cas: 68611-44-9)

Acute Toxic Dose 1 LD₅₀ >5000 mg/kg (Oral-rat)

Acute Toxic Dose 2 LD50 >5000 mg/kg (Dermal-Rabbit)

Acute Toxic Dose 3 LD₅₀ >5.01 mg/l (Inhalation-rat)

11.2. Corrosive and Irritation Effect (Corrosivity and Irritation)

Skin Abrasion/Irritation : It may have an irritating effect.

Eye Damage/Irritation : It may have an irritating effect.

Skin and Respiratory Sensitization : It may have an irritating effect.

SAFETY DATA SHEET

BOND

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11.3. Chronic Toxicity (Mutagenic, Carcinogenic and Toxic Effect on Reproduction) Germ Cell

Mutagenicity (in vitro – in vivo) : There is no proper information.

Carcinogenic Effect : There is no proper information.

Toxicity to Breeding : There is no proper information.

11.4. Other Toxicological Effects

Allergic effect : There is no proper information.

Effect in Repeated Doses : There is no proper information.

Stun Effect : Lead to lethargy or dizziness.

Sensitization : There is no proper information.

Developmental Toxicological Effects : There is no proper information.

Fertility : There is no proper information.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Tri-edma (Cas: 109-16-0)

LC50, Fish,96h 16.4 mg/l (Danio rerio)

ErC₅₀, Moss,72h 72,8 mg/l (Pseudokirchneriella subcapitata)

Urethan Dimethacrylate (Cas: 72869-86-4)

LC50, Fish,96h 10.1 mg/l (Danio rerio)

Silan (Cas: 68611-44-9)

LC50, Fish,96h >10000 mg/l (Brachydanio rerio)

LC50, Su piresi,24sa >1000 mg/l (Daphnia magna)

LC50, Green algae,72h >173 mg/l (Desmodesmus subspicatus)

Persistence and Degradability

There is no information about the biodegradability of the product.

Tri-edma : Biodegradation with oxygen (aerobic) - Exposure time 28 d Result: 85 % - Spontaneously, it is easily biodegradable.(OECD Test Instruction 301D)

Urethan Dimethacrylate : Biodegradation with oxygen (aerobic) - Exposure time 28 d Result: 22 % - Spontaneously, it is easily biodegradable. (OECD Test Instruction 301D)

Silan (Cas: 68611-44-9) :Persistence and biodegradability assessment methods for this product It cannot be applied in the same way as in inorganic substances.

SAFETY DATA SHEET

BOND

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12.2. Bioaccumulative Potential

There is no data on bioaccumulation.

12.3. Mobility in the Soil

There is no information about the movement of the product through the soil.

12.4. Results of PBT and vPvB Evaluation

It does not contain a component that is considered PBT or vPvB.

12.5. Other Negative

The effects are unknown.

12.6. Endocrine Disrupting Properties

There is no information.

12.7. Other Negative Effects

Unknown.

13. DISPOSAL INFORMATION

13.1. Waste Processing Methods

Dispose of garbage and waste in accordance with the rules of the local authorities. It should not seep into sewers, waterways, or soil. The environmental officer will be informed of all major spills. Uncontaminated and completely emptied packages can be recycled.

14. TRANSPORTATION INFORMATION

14.1. UN Number

It is not classified.

14.2. Proper UN Transport Name

It is not classified.

Edition No : 01
Form No : 01/EN

SAFETY DATA SHEET

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14.3. Transportation Hazard Classes

It is not classified.

14.4. Packaging Group

It is not classified.

14.5. Environmental Damages

Environmentally Hazardous Substance / Marine Pollutant: No.

14.6. Special Precautions for the User

It is not classified.

14.7. Public Transport according to MARPOL 73/78 Annex II and IBC Code

N/a.

15. REGULATORY INFORMATION

15.1. Special Safety, Health and Environmental Legislation for Substance or Mixture National Legislation

- ❖ T.R. Ministry of Environment and Forestry, dated 26 December 2008, No. 27092, Hazardous Substances and Regulation on Classification, Packaging and Labeling of Preparations
- ❖ T.R. Ministry of Environment and Urbanization, dated 11 December 2013, No. 28848, Articles and Regulation on Classification, Labeling and Packaging of Mixtures
- ❖ T.R. Ministry of Health dated 31 December 2009, No. 27449, Biocidal Products Regulation
- ❖ T.R. Ministry of Labor and Social Security, dated 12 August 2013, No. 28733, Chemical Regulation on Health and Safety Measures in Working with Substances
- ❖ T.R. Ministry of Labor and Social Security, dated July 2, 2013, No. 28695, Personal Protector Regulation on the Use of Equipment in Workplaces
- ❖ T.R. Ministry of Labor and Social Security, dated 30 June 2012, No. 6331, Occupational Health and Security Act
- ❖ T.R. Ministry of Environment and Forestry, dated March 14, 2005, No. 25755, Control of Hazardous Wastes Regulation

SAFETY DATA SHEET

BOND

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16. OTHER INFORMATION

Abbreviations : ADR Regulation on the transport of dangerous goods by road
EINECS European Existing Commercial Substances
Inventory
CAS Chemical Theories Service
LC50 Concentration that killed 50% of subjects
LD50 50% of subjects with lethal dose
PBT is persistent, bioaccumulative and toxic
vPvB is Very Persistent, Very Bioaccumulative

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RESERVATIONS

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