

MATERIAL SAFETY DATA SHEET

(MSDS) According to EC Regulation 1907/2006/EEC and Subsequent Amendments

AKKIM
SEALANTS & ADHESIVES

Revision Date and No: 05/10/2010 – AFGBF: 960

BONDIT PU ADHESIVE FOAM

01 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Trade Name : BONDIT PU ADHESIVE FOAM
Company : Akkim Yapı Kimyasalları San. Tic. ve A.Ş.
Address : Yeşilbayır Mah. Şimşir Sk. No: 22 34555 Hadımköy İstanbul - TÜRKİYE
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02 HAZARDS IDENTIFICATION

2.1 Hazard description:

Xn Harmful
F Flammable



2.1.1 Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

R 10 Flammable.

R 20 Harmful by inhalation.

R 36/37/38 Irritating to eyes, respiratory system and skin.

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

Contains isocyanates. See information supplied by the manufacturer

2.2 Pressurized container:

Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

2.3 Classification system:

The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

03 COMPOSITION / INFORMATION ON INGREDIENTS

Description: Mixture of substances listed below with nonhazardous additions.

Ingredients	CAS No.	EINECS No.	Conc. (% w/w)	Classification
Diphenylmethanediisocyanate isomeres homologues	9016-87-9	-----	25-50%	Xn; R 20-36/37/38-42/43
Butane	106-97-8	203-448-7	2.5-10%	F+; R12
Dimethyl ether	115-10-6	200-662-2	2.5-10%	F+; R12
Propane	74-98-6	200-827-9	2.5-10%	F+; R12
Phosphorous based Flame retardant	13674-84-5	237-158-7	5-30%	Xn; R22

04 FIRST AID MEASURES

4.1 General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 the accident.

4.2 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.

4.3 After skin contact: Immediately wash with water and soap and rinse thoroughly.

4.4 After eye contact: Rinse opened eye for at least 15 minutes under running water. Consult a doctor.

4.5 After swallowing: If symptoms persist consult doctor.

05 FIRE FIGHTIN MEASURES

5.1 Protective equipment: Mount respiratory protective device and wear protective equipment.

5.2 Suitable extinguishing agents: CO₂, sand, extinguishing powder. Do not use water.

5.3 For safety reasons unsuitable extinguishing agents: Water with full jet.

06 ACCIDENTAL RELEASE MEASURES

6.1 Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

6.2 Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.

6.3 Measures for cleaning/collecting: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents.

07 HANDLING AND STORAGE

6.1 Handling

6.1.1 Information for safe handling: Ensure good ventilation/exhaustion at the workplace.

6.1.2 Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights.

Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material. Keep away from sources of ignition. - No smoking.

6.2 Storage

6.2.1 Requirements to be met by storerooms and receptacles:

Store in a cool location. Observe official regulations on storing packaging with pressurized containers.

6.2.2 Information about storage in one common storage facility:

Not required.

6.2.3 Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Ingredients with limit values that require monitoring at the workplace:

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

MEL : Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

106-97-8 butane

OES : Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm

74-98-6 propane

OES : Asphyxiate

115-10-6 dimethyl ether

OES : Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm IOELV

8.2 Personal protective equipment

8.2.1 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.

Avoid contact with the eyes and skin.

8.2.2 Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

8.2.3 Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.



Protective 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles



09 PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information:

Form : Aerosol

Odour : Characteristic

Colour : Green

9.2 Important health, safety and environmental information:

Boiling Range : Not applicable, as aerosol

Flash Point : Not applicable, as aerosol

Self-igniting : Product is not self igniting.

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

Solubility in / Miscibility with water : Not miscible or difficult to mix.

10 STABILITY AND REACTIVITY

10.1 Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.2 Dangerous reactions:

No dangerous reactions known.

10.3 Dangerous decomposition products:

No dangerous decomposition products known at room temperature.

11 TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

11.1.1 Primary irritant effect:

11.1.1.2 On the skin: Irritant to skin and mucous membranes.

11.1.1.3 On the eye: Irritating effect.

11.1.1.4 Sensitization: Sensitization possible through inhalation. Sensitization possible through skin contact.

11.2 Additional toxicological information

Contains diphenylmethane-4,4'-diisocyanate (MAK-value 0,005 ppm). May cause sensitization by inhalation and skin contact. Avoid repeatedly contact or contact for a longer time. People with isocyanate allergy should not be in contact with the content. In case of very sensitive persons low concentrations can cause asthmatic reactions.

12 ECOLOGICAL INFORMATION

12.1 General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

13 DISPOSAL CONSIDERATIONS

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

Attention: Cured foam can only be removed mechanically. Cured foam is chemically inert and therefore can be disposed of together with household garbage.

13.2 Unclean packaging:

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

Dispose of in accordance with local authority requirements.

14 TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)



ADR/RID class	: 2 5F Gases.
Danger code (Kemler)	: 23
UN-Number	: 1950 · Packaging group: -
Hazard label	: 2.1
Description of goods	: AEROSOLS

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Maritime transport IMDG:



IMDG Class	: 2.1
UN Number	: 1950
Label	: 2.1
Packaging group	: -
EMS Number	: F-D,S-U
Marine pollutant	: No
Proper shipping name	: AEROSOLS

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class	: 2.1
UN/ID Number	: 1950
Label	: 2.1
Packaging group	: -
Proper shipping name	: AEROSOL

15 REGULATORY INFORMATION

15.1 Risk Phrases

- R-10 : Flammable
R-20 : Harmful by inhalation
R-36/37 : Irritant to eyes and respiratory
R-38 : Irritating to skin

15.2 Safety Phrases

- S-9 : Keep container in a well ventilated place
S-16: Keep away from source of ignition. No smoking
S-23 : Do not breath vapours
S-25 : Avoid contact with eyes
S-33 : Take precautionary measures against static discharges

15.3 Special labeling of certain preparations:

Contains Diphenylmethane-4,4'-Di-Isocyanate, isomers and homologues

Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

Contains isocyanates. See information supplied by manufacturer. Wear suitable gloves. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Dispose of this material and its container to hazardous or special waste collection point.

16 OTHER INFORMATION

All information and instructions provided in this Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS. The company supplying entity shall not be held responsible for any defect in the product covered by this MSDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

Department issuing MSDS: Product safety department.

Contact: Product safety department info@akkim.net