

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 – PAGBF: 360

BONDIT MARINE ADHESIVE

01 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Trade Name : BONDIT MARINE ADHESIVE
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



2.2 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.

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.

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
Methylene diphenyl diisocyanate isomers homologues	101-68-8	202-966-0	2.5-5%	Xn; R 20-36/37/38-42/43
Benzoyl Chloride	98-88-4	202-710-8	2.5-10%	Xi; R 36/38

04 FIRST AID MEASURES

4.1 General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after 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. Remove contaminated clothing.

Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water

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if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment

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 FIGHTING 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.

5.4 Safety Hazards: This material reacts with water to produce a violent chemical reaction.
Not classified as flammable but will burn.

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. Observe all relevant local and international regulations. Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet.

07 HANDLING AND STORAGE

7.1 Handling:

- Avoid contact and inhalation of the vapor does not eat or drinking while working do not smoke while working.

7.2 Storage:

- Keep container tightly closed and dry in a cool, well-ventilated place
- Keep away from food, beverages and animal feedstock
- Protect from frost
- Protect from heat and direct sunlight
- Protect from atmospheric moisture and water

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Personal protection equipment:

- General protective and hygiene measures
- Take care for sufficient ventilation or exhaust on the workshop place
- Avoid contact with eyes and skin
- Use barrier skin cream
- Remove soiled or soaked clothing immediately
- Do not eat, drink or smoke during work time
- Wash hands before breaks and after work

8.2 Hand protection:

- Butyl rubber/nitrile rubber gloves

8.3 Eye protection:

- Safety glasses

8.4 Additional Information: Wash hands before eating, drinking, smoking and using the toilet.

09 PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Form : Liquid

Odour : Slight aromatic

Colour : Light brown

Explosive properties : No

Density (water=1) : 1.10 g/ml

Oxidizing properties : No

Flash Point : >100 °C.

Solubility : Not miscible with water.

10 STABILITY AND REACTIVITY

10.1 Chemical stability: This material is thermally stable when stored and used as directed.

10.2 Conditions to avoid: No hazardous reactions when stored and handled according to prescribed instructions.

10.3 Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

10.4 Hazardous reactions: No information available.

11 TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or an effect that may arise if the product is mishandled and over expose sure occurs are:

11.1. Acute Effects

Sensitization: Allergic reaction can occur with sensitive persons.

Inhalation: Material may cause irritation.

Skin contact: May cause irritation.

Eye contact: May cause irritation.

11.1. Long Term Effects

No information available for product.

12 ECOLOGICAL INFORMATION

12.1 Environmental fate and distribution:

Solid material, insoluble in water. No adverse effects are predicted.

12.2 Ecotoxicity effects:

No adverse effects on aquatic organisms are predicted.

12.3 Bioaccumulation:

No bioaccumulation potential.

12.4 Fate and effects in waste water treatment plants:

No adverse effects on bacteria are predicted.

13 DISPOSAL CONSIDERATIONS

13.1 Product disposal: Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.2 Packaging disposal: Dispose of in accordance with local regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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14 TRANSPORT INFORMATION

ADR

This material is not classified as dangerous under ADR regulations.

RID

This material is not classified as dangerous under RID regulations.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA

This material is not classified as dangerous under IATA regulations.

15 REGULATORY INFORMATION

Contains : Diphenylmethane-4,4'-diisocyanate, isomers and homologous.

Danger symbol : Xn Harmful

15.1 Risk Phrases

20	Harmful by inhalation.
36/37/38	Irritating to eyes, respiratory system and skin.
42/43	May cause sensitization by inhalation and skin contact.

15.2 Safety Phrases

2	Keep out of reach of children.
23	Do not breathe vapor.
36/37	Wear suitable protective clothing and gloves.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
46	If swallowed, seek medical advice immediately and show this container or label.
63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.

15.3 Special labeling

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). Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. 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