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Revision No: 2.3

SAFETY DATA SHEET

ABC PI SEA GLUE

29204 dated 13 December 2014, "Safety Data Sheets on Hazardous Substances and Mixtures of the Republic of Turkey Ministry of Environment and Urbanization Regulation is arranged in accordance with the provisions.

01 IDENTITY / MIXTURE / COMPOUND / DISTRIBUTION IDENTITY

1.1. Definition of Mixture:

The mixture of the Trade Name: ABC PI SEA GLUE

1.2. Specified Uses and Deprecated Uses of the Mix:

Use of the mixture: Adhesives

1.3. Safety Information Form Supplier's Information:

Company ABC CHEMICAL INDUSTRY AND FOREIGN TRADE. LTD. Sti.

Address : ORTAKOY INDUSTRIAL SITE, ILT BULVARI, NR 16 SILIVRI ISTANBUL / TURKEY

Phone / Fax Number: Tel: +90 212 4221356/57 FAX: +90 212 4221358

Mail / Web : www.abcsealants.co

1.4. Emergency Telephone Number: +90 212 4221356/57 intra -Memory 08: 00-18: 00

1.5. National Poison Information Center: 114

02 DESCRIPTION OF DANGER

2.1. Classification of Mixture

2.1.1. Classification of the Mixture according to Regulation (EC) 1272/2008 (CLP / GHS)

(Regulation on Classification, Labeling and Packing of Materials and Mixtures)

Skin Sensitizer, Category 1, H317.

Respiratory Sensitive, Category 1, H334.

Carcinogenicity, Category 2, H351.

2.2. Label Elements

Labeling of the mixture according to Regulation (EC) 1272/2008 (CLP / GHS)

Word of warning: Danger

Pictograms or Hazard Symbols

2.2.1. Hazard Clauses (H Phrases)

H317 - Causes allergic skin reactions.

H334- Inhalation difficulties may lead to asthma attacks or allergies.

H351- There is a doubt about the way to cancer.

2.2.2. Precautionary Clauses (P Phrases)

2.2.2.1. Prevention

P102- Keep out of the reach of children.

P261 - Avoid breathing dust / fume / gas / mist / vapor / spray.

P280- Wear protective gloves / protective clothing / eye protection / face shield.

2.2.2.2. Intervention

P302 + 352- IF INHALED WITH LEATHER: Wash with plenty of soap and water.

P333 + 313- If skin irritation or pruritus is present: Get medical attention / intervention.

P304 + 340- IF INHALED: If breathing is difficult, remove victim to fresh air and allow for easy breathing

Hold it in a comfortable position.

P342 + 311- If breathing signs indicate: Call a POISON CENTER or doctor / physician.

2.2.2.3. disposal

P501- Dispose of the contents / container via a waste management company authorized by the local government.

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2.2.2.4. Additional Tagging Information:

& Quot; 4,4'-methylenediphenyl diisocyanate & quot ;.

2.3. Other Hazards**2.3.1. Physical Hazards**

No application.

2.3.2. Health Hazards

Skin Sensitizer, Category 1.

Respiratory Sensitive, Category 1.

Carcinogenicity, Category 2.

2.3.3. Environmental Hazards

No application.

2.4. Special Hazard Information for Human Health and Environment

This product must be labeled in accordance with the latest version of the "European Union, Guide to the General Classification of Mixtures".

2.5. Additional Information

For toxicological information, please refer to section 11. See section 16 for full expansions of the H- and EF-expressions.

03 COMPOSITION / INFORMATION ON INGREDIENTS

Description: Safe and additives containing the mixture of the following components.

Contents	CAS No.	EINECS No.	Conc. (% W / w)	Classification
4,4'-methylenediphenyl diisocyanate	101-602	966-0	2.5-4.5	H315, H317, H319, H332, H334 H335, H351, H373
Benzoyl chloride	98-88-4	202-710-8	0.05-0.1	H302, H312, H314, H317, H332

04 FIRST AID MEASURES**4.1. Explanation of First Aid Measures:**

General Information: Win the occurrence of symptoms of poisoning can occur after a few hours, so people from accidents Then kept under medical observation for at least 48 hours.

When inhalation: Provide fresh air taken. If not feeling well, seek medical advice.

Skin Contact at: Rinse your skin immediately with plenty of soap and water. Remove your contaminated clothing and wash it again before if symptoms occur, seek medical advice.

Eye contact at: wash with copious amounts of water. If so, remove the contact lenses. Keep pausing. Symptom formation Get medical attention.

If swallowed: Do not induce vomiting. Rinse thoroughly with water. If symptoms persist, seek medical advice and Show the tag.

Following 4.2. Akut and later Important Symptoms and Effects: Data not available.

For 4.3. Tibb Intervention and Special Treatment Requirement First Signs: Data not available.

05 FIGHTING MEASURES**5.1. Fire Extinguisher:**

-Flight Extinguishing Media: CO2, dry chemicals. Water spreyi or alcohol-resistant foams in large diameter fires.

- Incomplete Extinguishing Media: High volume water jet.

5.2. Special hazards arising from the mixture: Exposure to combustion products may be hazardous to health.

- Hazardous combustion products: Carbon dioxide, Carbon monoxide, Nitrogen oxide.

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5.3. Recommendations for Fire Fighting Teams: use breathing apparatus where needed. Personal protective equipment use.

06 ACCIDENTAL RELEASE MEASURES

- 6.1. Personal Precautions, Protective Equipment and Emergency Procedures:** recommendations for safe handling and personal protection equipment recommendations. Keep unprotected persons away
- 6.2. Environmental Precautions:** Avoid discharge to the environment. Avoid possible leakage and spillage. Contaminated wash water Do not throw away. Inform local authorities in case of significant loss.
- 6.3. Not Methods and Materials for Storage and Cleaning:** Provide adequate ventilation. Water or aqueous cleaning Do not mix it with waste water. Follow all applicable local and national regulations. Spilled or released Avoid contact with material. Remove all your contaminated clothing.
- 6.4. Citations to Other Sections:** Section 7, 8, 11, 12 and 13 see.

07 HANDLING AND STORAGE

7.1. Precautions for Safe Handling:

Refer to engineering controls section in EXPOSURE CONTROLS / PERSONAL PROTECTION section. Enough only Use in ventilated conditions. Hand in accordance with "Good Industrial Hygiene and Safety Practices".
Be careful to prevent spills and minimize the release of waste into the environment. Eye wash systems and eye Ensure that the showers are close to the work area. Do not eat, drink or smoke while using this product. Again Wash contaminated clothing before use.

7.2. Conditions for Safe Storage Including Conflicts:

Store in properly labeled containers. Keep in accordance with applicable national regulations. Along with strong oxidizing agents storage.

7.3. Specific Recent Uses:

These measures are for room temperature use. Addition at high temperature or aerosol / spray applications Measures may be necessary.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters:

Component	CAS Number	Value	Type	Control Parameter	Principle
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0.005 ppm	ACGIH	
Benzoyl chloride	98-88-4	A4	0.5 ppm	ACGIH	AIHA
		STELLAR	1 ppm		

8.2. Exposure Controls:

8.2.1. Engineering Controls:

Hazardous compounds may form during the process (see section 10). Provide adequate ventilation, especially in confined spaces. Lower exposure concentrations in the working environment

8.2.2. Personal Protective Equipment:

Eye Protection: safety glasses with side shields against chemical splashes.

Skin Protection: Wash skin after contact. Wear suitable protective clothing.

Hand Protection: Butyl rubber / nitrile rubber gloves.

Respiratory Protection: Use suitable respirator insufficient ventilation environment.

8.2.3. Environmental Exposure Controls: the sanitary sewer system / surface water or groundwater mixing.

09 Physical and Chemical Properties

9.1. General Information:

Appearance: Liquid

Color: Light brown

Odor: slightly aromatic

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Odor threshold: Data not available.

Ph: No Application.

Melting / Freezing Point: Not available.

Boiling Point / Boiling Range: No Application.

Flash Point: > 100 ° C.

Evaporation Rate: No Application.

Flammability: Not Flammable.

Explosion Lower / Upper Limit: Data not available.

Vapor Pressure: No Application.

Density: 1.10 ± 0.05 g / ml

Relative Density: Data not available.

Viscosity: 5000 to 15000 cp (20 ° C) (spindle-4,20 rpm)

Solubility: not soluble in water. (23 ° C)

Distribution coefficient: n-octanol / water: Data not available.

Auto-Flame Temperature: Data not available.
Decomposition Temperature: Data not available.
Viscosity: Not available.
Explosive Properties: Not explosive.
Oxidizing Properties: Not oxidising.

9.2. Other Information:

VOC: <50 g / l

10 STABILITY AND REACTION

10.1. Reactivity: Not available.
10.2. Chemical stability: The product is chemically stable.
10.3. Toxic reaction Likelihood of harmful decomposition products occurs at high temperatures.
10.4. Conditions to Avoid: Data not available.
10.5. Materials to avoid: Not available.
10.6. Hazardous decomposition products: Carbon and nitrogen oxides, smoke and other toxic gases.

11 TOXICOLOGICAL INFORMATION**11.1. Information on Toxic Effects:**

-Acute toxicity (oral / respiratory / skin path) can not be classified based on available information.

Toxicological information on basic components in mixture:

4,4'-methylenediphenyl diisocyanate (CAS No. 101-68-8)

LD50 (oral): 9.200 mg / kg-mouse.

LC50 (inhalation): > 2.24 mg / m³-Mouse-Exposure time: 1 hour. (OECD Test Guideline 403)

Benzoyl Chloride (CAS No. 98-88-4)

LD50 (oral): 3.619 mg / kg-mouse. (OECD Test Guideline 401)

LC50 (inhalation): 1.870 mg / m³ -Mouse-Exposure time: 2 h. (OECD Test Guideline 401)

LD50 (skin): 790 mg / kg-Rabbit.

-Volume Corrosive / Irritant: classification can be made based on available information.

Benzoyl Chloride (CAS No. 98-88-4)

Skin: Rabbit Conclusion: Severe skin irritation Exposure time: 24 h

-Serious Eye Damage / Eye Irritation: classification can be made based on available information.

4,4'-methylenediphenyl diisocyanate (CAS No. 101-68-8)

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Eyes: Rabbit Conclusion: Slight eye irritation.

Benzoyl Chloride (CAS No. 98-88-4)

Eyes: Rabbit Conclusion: Severe eye irritation.

'Aspiration, or skin Sensitizing: leads to respiratory and skin sensitization.

4,4'-methylenediphenyl diisocyanate (CAS No. 101-68-8)

Pig / Conclusion: May cause sensitization by inhalation.

Mouse / Result: May cause sensitization by skin.

Benzoyl Chloride (CAS No. 98-88-4)

Maximization Test (GPMT) - Pig: May cause skin sensitivity. (OECD Test Guideline 406)

-Mutagenic A: According to the available information, classification can be made.

-Kanserojenit: I have suspected to cause cancer.

Reproduction System Toxicity: classification can be made based on available information.

-specific Target Organ Toxicity-Single Exposure: can not be classified based on available information.

-specific-Target Organ Toxicity Repeated Exposure: classification can be made based on available information.

Loss-aspiration: classification can be made based on available information.

12 ECOLOGICAL INFORMATION**12.1. Toxicity:**

Components:

4,4'-methylenediphenyl diisocyanate (CAS No. 101-68-8)

EC50: Daphnia magna = 0.35 mg / l - Duration: 24 h

Benzoyl Chloride (CAS No. 98-88-4)

LC50: Fish = 34.1 mg / l - Duration: 96 h

LC0: Zebrafish = 7.5 mg / l - Duration: 96 h

12.2. Persistence and Decayability:
Benzoyl Chloride (CAS No. 98-88-4)

Biodegradability: 95%

Exposure time: 20 days

Method: Closed container test

Result: Easily biodegradable.

3.12. Bioaccumulative Potential: Not available.

4,4'-methylenediphenyl diisocyanate (CAS No. 101-68-8)

Bioaccumulation *Cyprinus carpio* (Carp): 0,0008 mg / l-28 days.

Bioconcentration factor (BCF): 92

12.4. Soil Mobility: Not available.

12.5. Results of PBT and vPvB Assessment: The mixture of 0.1% or higher in the persistent, bioaccumulative and toxic (PBT), or any component that is considered very persistent and very bioaccumulative (vPvB).

12.6. Other Adverse Effects: Not available.

13 DISPOSAL INFORMATION

13.1. Waste Processing Methods:

Product: Dispose of in accordance with local regulations. The waste codes are preferably sent to the waste disposal authorities by the user. Should be allocated.

Contaminated Packaging: Dispose of as unused product. Empty containers suitable for recycling or disposal. It should be taken.

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14 TRANSPORT INFORMATION

14.1. UN Number: Application no.

2.14. UN Proper Shipping Name: no application.

14.3. Transport harmfulness Class: none Application.

14.4. Packaging Group: none Application.

14.5. Environmental damage: No Application.

14.6. Special Precautions for users: No Application.

14.7. MARPOL 73/78 Annex 2 Bulk Transport and by the IBC Code: No Application

15 REGULATORY INFORMATION

15.1. Miscarriage Safety, Health and Environment Legislation

- REACH Regulation (EC) No 1907/2006.
- CLP Regulation (EC) No 1272/2008.
- Regulation on the Classification, Labeling and Packaging of Matter and Mixtures, SEA.
- Regulation on the Safety Data Sheets Relating to Hazardous Substances and Mixtures (RG13 / 12 / 2014-29204)
- Regulation on the Transport of Dangerous Goods by Road, (RG24 / 10 / 2013-28801)

16 OTHER INFORMATION

16.1. Safety Information Form Revision Information

Preparation Date: 05/29/2015

Revision No: 2.3.

16.2. abbreviations

CLP: Classification, Labeling and Packaging.

GHS: Global Harmonization System.

ADR: European Union Convention on the Carriage of Dangerous Goods by Road.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Dangerous Goods Code.

PBT: persistent, bioaccumulative and toxic.

vPvB: Very persistent and very bioaccumulative.

OEL: Occupational exposure limit.
TWA: Time Weighted Average.
CAS No. Chemical index number.
EC50: effective concentration.

LC50: the lethal concentration that kills 50% of test animals during a specified time.
LD50: lethal dose that kills 50% of test animals during a specified time.
H302: harmful if swallowed.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: Allergic reactions can lead to skin.
H319: Causes serious eye irritation.
H332: Harmful if swallowed.
H334: breathing difficulties if inhaled, it can cause asthma attacks or allergies.

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H335: May cause respiratory tract irritation.
H351: In a suspected cause of cancer.
H373: May cause damage to organs result of prolonged or repeated exposure.

16.3. Other informations

All information and instructions provided in this Safety Data Sheet (GBF), preparation on the date specified in the Safety Data Sheet Based on updated scientific and technical information available. Preparation of this Safety Data Sheet Can not be detected due to scientific and technical information that is not available during the Can not be held liable for defects.

GBF Section: Product Safety Department.

MSDS Preparer: Özlem ARGİN
Certificate No: GBF-01.50.05

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