

SAFETY DATA SHEET

According to EC directive 1272/2008

APEL MARINE PU GLUE

Release date: 01.04.2014
Revision 04.02.2016
Date/No: / Rev.02
MSDS No: SDS 039-
EN

SECTION 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product Identifier

Trade Name: APEL Marine PU Glue

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Mixture Uses: Adhesive

1.3 Details of the Supplier of the Safety Data Sheet

Beta Kimya Sanayi ve Ticaret A.Ş.
BOSB Aydınli Mah. 1 No.lu Cad. No:11 Tuzla - İstanbul/TÜRKİYE - 0216 593 90 97(Tel.) - 0216 593 90 98 (Fax)
www.apeltutkal.com - msds@apeltutkal.com

1.4 Emergency Telephone Number

Emergency Phone Number : 114 National Poison Information Center
Working Hours : Weekdays 08:00-18:00 (Turkey Time)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

The mixture meets the criteria for classification in accordance with Regulation (EC) No. 1272/2008.



2.2 Hazards Identification

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Hazard Pictograms:			
	GHS08	GHS07	
Signal Words:	Danger		
Hazard Statements	H351 H334	Suspected of causing cancer . May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
	H317	May cause an allergic skin reaction.	
Precautionary Statements	P102 P261 P280	Keep out of reach of children. Avoid breathing fume/gas/mist/vapours. Wear protective gloves/protective clothing/eye protection/face protection.	
	P302+P352 P304+P340	IF ON SKIN: Gently wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
	P342+P311 1 P308+P313 3 P405 P501	If experiencing respiratory symptoms: Call a POISON CENTER/doctor. IF exposed: Call a POISON CENTER or doctor/physician. Store locked up. Dispose of contents/container through a waste management company authorized by the local government.	
For full text of Hazard- and EU Hazard-statements: see SECTION 16.			

2.3 Other Hazards

The mixture does not meet the criteria for PBT or vPvB in accordance with the Annex XIII in the Regulation (EC) No. 1272/2008. Based on current knowledge, the mixture does not include greater than 0,1% the ratio of PBT or vPvB substances.

SECTION 3. COMPOSITION ON INGREDIENTS

3.2 Mixtures

General chemical description:

Adhesive

Base substances of preparation:

Declaration of the ingredients according to CLP (EC) No 1272/2008:

CAS No.	EC No.	Concentration	Classification
4,4'-methylenediphenyl diisocyanate	500-040-3	< 5 %	Canc.2 ;H351 Acute Tox.4* ; H332

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25686-28-6			STOT Rep. Exp.2; H373** Eye Irrit. 2;H319 BHOT Rep. Exp.3; H335 Skin Irrit. 2;H315 Respiratory Sens.1;H334 Skin Sens.1;H317
Benzoyl Chloride 98-88-4	202-710-8	< 0,05 %	Acute Tox. 4 *;H332 Acute Tox 4 *;H312 Acute Tox 4 *;H302 Skin Irrit. 1B;H314 Skin Sens. 1;H317

See the Section 16 for the full text of the H- and P- Statements.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

If exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor. Get medical advice if you feel unwell.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. Get medical advice if you feel unwell. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If symptoms develop and persist, seek medical advice in case of necessity.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If eyelids are bonded closed, do not force eye open. Get medical attention.

Ingestion: DO NOT induce vomiting. Consult with a doctor in case swallowing. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

See the Section 8 .

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media: All common extinguishing agents are suitable. Foam, carbon dioxide, dry powder, water spray

Extinguishing media which must not be used for safety reasons: High volume water jet.

5.2 Special Hazards Arising From the Mixture

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Hazardous decomposition products may be formed under fire conditions. In case of exposure to heat the extremely dangerous combustion products like oxides of carbon and nitrogen may occur.

5.3 Advice For Firefighters

Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment. Do not allow to enter into surface water or drains.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel

Use personal protective equipment. Keep children away. Provide ventilation. Keep away from igniting sources. Keep away from naked flame or any incandescent material.

For Emergency Responders

Wear personal protective fireproof clothing.

6.2 Environmental Precautions

Do not empty into drains or water. Disposal of the chemicals must be made according to official regulations.

6.3 Methods and Material For Containment and Cleaning Up

Ventilate area of spill. Clean contaminated surface thoroughly. Dispose of contaminated material as waste according to Section 13.

6.4 Reference to Other Sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions For Safe Handling

Avoid breathing vapor and mists. Do not drink, eat and smoke in the working area. Wash hands thoroughly after handling, Use nitrile gloves and protective glass during handling. Use only outdoors or in a well-ventilated area.

7.2 Conditions For Safe Storage, Including Any Incompatibilities

Keep in a cool, well-ventilated area in original container. Away from heat, sparks and open flame.

Keep containers closed safely and check periodically in case leakage and spilling.

Protect containers from physical damage.

Keep only in the original container

7.3 Specific end use(s)

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Adhesive

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

According to EH 40/2009 WELs :

EC No.	CAS No.	Component	TWA	STEL
-	101-68-8	4,4'-methylenediphenyl diisocyanate	0,005 ppm	-
-	98-88-4	Benzoyl Chloride	-	1 ppm

8.2 Exposure Controls

Appropriate Engineering Controls:

Ensure good ventilation. Apply the all common precautions while working with chemicals.
Minimize workplace exposure concentrations.

Respiratory protection:

Use appropriate respiratory protective device in case of insufficient ventilation.

Hand protection:

Wear refractive gloves while working. (Butyl rubber/nitrile rubber gloves.)

Eye protection:

Wear protective goggles

Skin protection:

Wear protective equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

Appearance	: Liquid
Color	: Light Brown
Odor	: Slight Aromatic
pH	: Not Applicable
Melting/ Freezing Point	: Not Applicable
Initial Boiling Point	: Not Applicable
Boiling Range	: Not Applicable
Flash Point	: >100°C
Evaporation Rate	: Not Applicable
Flammability of Solids and Gases	: Highly flammable
Explosive Limit	: Not Applicable
Vapour Density	: Not Applicable
Vapour Pressure	: Not Applicable
Density 25°C	: 1,10 ±0,03 g/cm ³
Solubility	: Insoluble in water, reacts with water.
Partition Coefficient (n-octanol/water)	: Not Applicable
Auto-ignition temperature	: Not Applicable
Decomposition Temperature	: Not Applicable
Viscosity	: 5.000-10.000cP (20°C)
Explosive Properties	: Not Applicable
Oxidizing Properties	: Not Applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

See section reactivity

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Oxides of carbon and nitrogen, smoke and other toxic fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Informations of Toxicological Effects

Based on available data, the classification criteria are indicated below:

Sensitization:

An allergic reaction cannot be excluded after repeated skin contact.

Corozion/Irritation:

Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Skin Contact: Remove contaminated skin with a clean, dry tissue . Use moisturizer in case of irritation.

Eye Contact: Irritating to eyes. Causes excessive tearing.

Ingestion: Consult with a doctor in case swallowing

General Toxicology Information:

EC No.	CAS No.	Material	TOXICITY
202-966-0	101-68-8	4,4 Diphenylmethanediisocyanate	LD50 (oral): 9.200 mg/kg-Rat. LC50 (inhalation): >2.24 mg/m ³ -Rat- Exposure time: 1 h
202-710-8	98-88-4	Benzoyl Chloride	LD50 (oral): 3.619 mg/kg-Rat. LC50 (inhalation): 1.870 mg/m ³ -Rat- Exposure time: 2 h LD50 (dermal): 790 mg/kg-Rabbit.

SECTION 12. ECOLOGICAL INFORMATION

General Ecological Information:

The material is not biodegradable so, do not allow spreading soil, waterways or waste water canal.

12.1. Toxicity

EC No.	CAS No.	Component	Toxicity
202-966-0	101-68-8	4,4 Diphenylmethanediisocyanate	LC50: Fish >1000 mg/l - Duration: 96 h EC50: Daphnia >1000 mg/l - Duration: 24 h EC50: Algae >1640 mg/l - Duration: 72 h
202-710-8	98-88-4	Benzoyl Chloride	LC50: Fish = 34.1 mg/l - Duration: 96 h LC0: Zebra fish = 7.5 mg/l - Duration: 96 h

12.2. Persistence and degradability

EC No.	CAS No.	Component	Biodegradable
202-966-0	101-68-8	Difenilmetan-4,4'- diizosiyanat	Carp: 0,0008 mg/l-28 d. BCF: 92
202-710-8	98-88-4	Benzoyl Chloride	% 95 Biodegradable

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Based on current knowledge, the mixture does not include greater than 0,1% the ratio of PBT or vPvB substances.

12.6. Other adverse effects

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

In consultation with the responsible local authority, must be subjected to special treatment. Disposal of the products must be made according to official regulations.

Waste code

According to the directive 2008/98/EC on waste management and the local regulation (02.04.2015 dated- No.29314) the waste code is:

Adhesive: 08 04 09: waste adhesives and sealants containing organic solvents or other dangerous

SECTION 14. TRANSPORT INFORMATION

14.1. UN Number

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

14.2. UN Proper Shipping Name

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

14.3. Transport Hazard Class(es)

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

14.4. Packaging Group

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

14.5. Environmental Hazards

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

14.6. Special Precautions For User

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

14.7. Transport In Bulk According to Annex II of Marpol and The IBC Code

Not applicable.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

According to EC directive on health and safety precautions while working with chemicals (2009/161/EU) and Directive on Carcinogens or mutagens at work (2004/37/EC) there are no limitations on the products and materials.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16. OTHER INFORMATION

This document was prepared according to December 13, 2014 dated and 29204 numbered regulations regarding 1272/2008/EC guideline.

H351 H334 H317	Suspected of causing cancer . May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
P102 P261 P280 P302+P352 P304+P340 P342+311 P308+313 P405 P501	Keep out of reach of children. Avoid breathing fume/gas/mist/vapours. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Gently wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. IF exposed: Call a POISON CENTER or doctor/physician. Store locked up. Dispose of contents/container through a waste management company authorized by the local government.

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