



MATERIAL SAFETY DATA SHEET MSDS

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

PRODUCT NAME :404 MDF 200- 400 ML

COMPANY NAME : 404 Kimya San. ve Tic. A.Ş.

Headquarters: Merkez Mahallesi Akçe Sokak Güzle İş Merkezi
No:3 Kat:1 Şile Yolu Shell Benzin İstasyonu Yanı
Çekmeköy/ İSTANBUL
Factory: Organize San. Böl. 102 Ada 7 Parsel
Selimiye Köyü OSMANELİ/ BİLECİK
Headquarters Tel: 0216 642 92 71 Fax: 0216 642 92 75
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2. HAZARDS IDENTIFICATION

2.1 Hazard Symbols : F +: Extremely flammable



Xn : Harmful

2.1.1 Risk Phrases :

R 12: Extremely flammable.

R 20/21/22 harmful by inhalation, in contact with skin and if swallowed.

R 38 Irritating to skin.

R 65 Harmful if inhaled. May cause lung damage if swallowed.

R67 Vapors may cause drowsiness and dizziness.

2.1.2 Safety Phrases :

S 1/2: Keep locked up and out of the reach of children.

S 23: Do not breathe gas/fumes/vapour/spray

S 36/37: Wear suitable protective clothing and gloves.

S 46: If swallowed, seek medical advice immediately and show this container or label.

2.2 Other phrases : Security warning, caution flammable gas! Storage temperature should not exceed 50o C since containers are pressurized.

2.3 The effects of exposure to excess amount : **Eye contact:** May irritate eyes. Contact with foam may lead physical damage due to its adhesive property. **Skin contact :** Causes local irritation, redness and swellings. **Inhalation:** Vapors can irritate the nose and may damage upper respiratory tract. **Digestion:** May cause irritation in the mouth and digestive system, in the mucous membranes.

3. INFORMATION ABOUT THE COMPOSITION/INGREDIENTS

Definition: A mixture containing non-hazardous additives and the ingredients specified here below. Ingredients	CAS No.	EINECS No.	Cons. (% w, W)	Classification
Heptane	142-82-5	205-563-8	30-50%	F; R 11
				Xi; R 38-R67
				Xn; R65
Butane	106-97-8	203-448-7	1-5%	F; R 12
Propane	74-98-6	200-827-9	1-5%	F; R 12
N,N,4-Trimethylaniline	99-97-8	202-805-4	1-4%	Xn; R20/21/22
Definition: A mixture containing non-hazardous additives and the ingredients specified here below. Ingredients	CAS No.	EINECS No.	Cons. (% w, W)	Classification
ethyl-2-cyanoacrylate.	607-236-00-9	7085-85-0	230-391-5	
polymethylmethacrylate		9011-14-7		
1,4-Dihydroxybenzene	604-005-00-4	123-31-9	204-617-8	

4. FIRST AID

4.1 Inhalation : Move the patient to fresh air if respiratory distress occurs and keep the patient calm. Seek medical assistance.

4.2 Skin Contact : Foam should be removed with the help of a cloth and the clothings contaminated should be removed. Non-cured foam can be removed off the clothing with the help of a light solvent such as acetone. If irritation persists, use a moisturizing cream. Seek medical attention if symptoms continues.

4.3 Eye contact : Wash eyes with plenty of water for more than 15 minutes, and seek medical advice.

4.4 If swallowed : If swallowed, seek medical advice immediately and show this container or label. If swallowed: Do not induce vomiting. If victim vomits lying on your back, ensure treatment position.

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Media: Use carbon dioxide, dry chemical foam, water spray (interaction with water causes formation of carbon dioxide) for large fires.

5.2 Fire fighting material and tools to be avoided due to safety: No special provisions.

5.3 Special hazards, might be caused by product, and materials or gases formed after its combustion: Vapors are heavier than air and therefore they can move on surface due to reasons such as ventilation and flame up by ignition sources in places far away from use area.

5.4 Required protective equipment for firefighters: Face mask or respiratory mask for a safe inhalation and personal protective equipment resistant against chemicals.

5.5 Other measures: Includes gases which can create explosive mixtures in the air, and is combustible and condensing. Cured foam is in organic nature, and flames up where heat, oxygen and ignition sources are available.

6 . ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Use protective gloves, work clothing and goggles. Adequate ventilation should be provided. Keep away from sources of ignition.

Smoking is prohibited.

6.2.2. Environmental Precautions: Dispose of empty containers as pressure vessels. Prevent spilled material from dissemination, flowing, contact with garbage, channels and sewage.

7. HANDLING AND STORAGE

7.1 Usage Use in accordance with regulation on flammable and combustible liquids. Provide good ventilation. Put the product in pressurized containers. Do not burn the product container.

Wear appropriate personal protective equipment (see: Section 8). Eating, drinking and smoking should be prohibited where materials are transferred, stored, and processed. Workers must wash their hands before eating, drinking, or smoking. The people who has sufferings of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any kind of business where this product is used. Avoid skin and eye contact, or do not contaminate clothes. Do not inhale vapor or mist. Do not inhale the gas. Use only with adequate ventilation. Wear appropriate mask where ventilation is inadequate.

Store and use away from heat, sparks, open flame and other ignition sources. Use equipment (ventilation, lightning and material handling) providing protection against explosion. Use tools that does not produce sparks. Product residues might be present in empty containers and they can be dangerous.

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

7.2 Storage: Store away from oxidizer, plastic, aluminum, and store away from light metal as it is the case for flammable liquids. Heat and fume detectors should be installed in storage room.

Provide good ventilation on surface. The ideal storage temperature is 15-26 °c. Do not expose unused products to frost.

From the date of manufacture, it can be stored under appropriate conditions.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Information on system and facility design: No special provisions.

5.1 Components with specific control parameters: No dangerous interaction with air during evaporation of the product at 20 °C.

8.3 Personal protection:



8.3.1 Respiratory Protection: Respirators must be used in poorly ventilated areas. Fresh air respirators should be used in long-term interaction.

8.3.2. Hand Protection: If necessitated by a risk assessment, water and airtight gloves resistant against chemicals, compatible with an approved standard, should be worn always when working with chemical products. Recommended: Butyl rubber/nitrile rubber gloves.

8.3.3. Eye Protection: To avoid exposure to splashing of liquids, fumes, gases or dust safety glasses compatible with an approved standard should be used in case of any risk.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General Information

Form: Liquid in pressure vessel

Color: Colorless

Odor: Characteristic

Flash Point: Closed container! -104 ° C/-148 ° F to -20 ° C/68 ° F

Self ignition: Product does not feature self-ignition.

Density at 20 °C: 1,06 – 1,08 g/cm³ (8.84 – 9.01 lb/gal)

pH: Not applicable

Viscosity, dynamics: Not applicable

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid. Stable under normal storage conditions. Do not expose temperatures exceeding 50 °C. Keep away from heat, flame, and sparks.

10.2 Materials to avoid: Reacts with active hydrogen-containing materials of water content.

10.3 Hazardous decomposition products : Does not contain any known hazardous decomposition products .

10.4 Other Information: No special provisions.

11. TOXICOLOGICAL EFFECTS

11.1 Toxicity Hazardous component	NTP Carcinogen	OSHA Carcinogen	IARC Carcinogen			
n-Heptane	No	No	No			
Butane	No	No	No			
Propane	No	No	No			
N,N-Dimethyl-p-toluidine	No	No	No			
3.1. Substances						
67/548/EEC / 1999/45/EC						
Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
ethyl-2-cyanoacrylate.	607-236-00-9	7085-85-0	230-391-5			Xi; R36/37/38
polymethylmethacrylate		9011-14-7				
1,4-Dihydroxybenzene	604-005-00-4	123-31-9	204-617-8			Carc. Cat. 3; R40 Muta. Cat.
EC 1272/2008						3; R68 Xn; R22 Xi; R41 R43
						N; R50
Chemical Name	Index No.	CAS No.	EC No.			
ethyl-2-cyanoacrylate.	607-236-00-9	7085-85-0	230-391-5			
polymethylmethacrylate		9011-14-7		REACH Registration Number	Conc. (%w/w)	Classification
1,4-Dihydroxybenzene	604-005-00-4	123-31-9	204-617-8	Number	(%w/w)	
						STOT SE 3: H335;

Ingestion: Irritating to mouth, throat and stomach.

Skin contact : Prolonged and repeated skin contact may cause allergic reactions.

Eye contact : Irritating to eyes.

Other informations: Inhalation of vapors may irritate mucous membrane in respiratory system , cause coughing, respiratory distress and headache. High amounts can cause asphyxia. Totally cured foam (at least 24 hours) is not toxic or irritant.

12. ECOLOGICAL INFORMATION

12.1 General Information

Water hazard class 3 (German Regulation) Self-assessment): Excessive amounts are hazardous for water.

Do not allow even small amounts mixing in groundwater, water and sewage.

12.2 Accumulation and degradability in nature and water: Cannot be biologically or chemically degradable. No potential of accumulation.

Fish toxicity: No application

Bacteria toxicity: Not applicable

Ecotoxicity (in water): Not applicable

Other informations: Not applicable

13. DISPOSAL CONSIDERATIONS







13.1 Waste treatment methods Not applicable

13.2 Proper disposal Not applicable

13.3 Information on controlled disposal: Move filled containers to hazardous waste disposal facilities. Dispose cured foam as if disposing plastic waste.

13.4 Disposal in nature: No application.

14. TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA-DGR
14.1. UN-No	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS Hydrocarbons, C6-C7, cyclics, <95% n-hexane)	AEROSOLS Hydrocarbons, C6-C7, cyclics, <95% n-hexane)	Aerosols, flammable Hydrocarbons, C6-C7, cyclics, <95% n-hexane)
14.3. Class(es)	2.1 	2.1 	2.1 
14.4. Packaging Group	-	-	-
14.5. Environmental Hazards	Yes 	Yes 	Yes 

14.6. Special security measures for the user

No information available

14.7. Mass transportation of goods pursuant to MARPOL Treaty 73/78 Annex II and IBC Code

not applicable

Road Transport ADR/RID

Hazard sign 2.1

Tunnel Restriction

Code D

Classification code

5F

Should be transported in "Limited Quantities" pursuant to Section 3.4 of ADR.

Maritime transport (IMDG)

MARINE POLLUTANT

15. REGULATORY INFORMATION

15.1 Definition and classification according to the European Legislation and Regulation on Hazardous Chemicals:

Hazard Signs: F + : Extremely flammable

Xn : Harmful

15.2 Risk phrases: R 12: Extremely flammable.

R 20/21/22 harmful by inhalation, in contact with skin and if swallowed.

R 38 Irritating to skin.

R 65 Harmful if inhaled. May cause lung damage if swallowed.

R67 Vapors may cause drowsiness and dizziness.

15.3 Risk phrases:

S 1/2: Keep locked up and out of the reach of children.

S 23: Do not breathe gas/fumes/vapour/spray.

S 36/37: Wear suitable protective clothing and gloves.

S 46: If swallowed, seek medical advice immediately and show this container or label.

15.4 Additional Warning Phrases: Contains cyanate. Please refer to the information given by the manufacturer. Pressurized container. Protect from sunlight and do not expose to temperatures above 50 ° c. Do not pierce or burn, even after use. Do not spray over naked flame or materials in incandescent form. Keep away from sources of ignition - do not smoke. Keep out of reach of children.

16. OTHER INFORMATION

Currently valid information and existing EC directives and national laws are based on regarding Product Safety Information. Users instructions are beyond our knowledge and control. This product cannot be used for a different purpose without our written permission. Complying with regional law and following them all the time, fulfill the requirements are under responsibility of the user. This Material Safety Document describes requirements for safety of product, it does not cover product features.