



Material Safety Data Sheet

2 K Acrylic Hardener

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Created : 16.02.2016
Last Updated : -
Reorganization No : -

1- PRODUCT AND COMPANY INFORMATION

1.1. Product Information

Product Name : 2K Hardener Standard/Fast/Slow

1.2. Product Application

For professional using. A universal hardener used in acrylic 2K products. Depending on drying speed there are three types of standard, slow and fast.

1.3. Supplier

Company Name İmaj Yatırım Endüstri ve Petrol ürünleri Dağıtım A.Ş

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Urgent Situation Consultation

Emergency Telephone Number + 90 212 285 90 84

First Aid Emergency Center 112

Poison Center 114

Fire-Fighting 110

2- PRODUCT INFORMATION ON INGREDIENTS

Material	Cas No	EC No	Concentration	Class	R Phrases
Butyl Acetate	123-86-4	204-658-1	% 25-40	Xn	10, 66, 67
Xylene	1330-20-7	215-535-7	% 25-35	Xn	10, 20/21, 38
Isocyanate	822-06-0	212-485-8	% 35-40	Xi	23, 36, 37, 38, 42, 43

3- DECIPTION OF LOSS

3.1 Material or mixture classification

Product Identification: Mixture



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Classified according to the 1272/2008 (SEA/GHS) (AB) statute

According to the Regulation of 1272/2008 EC the product related to hazardous materials.

Classified according to the 1999/45 EC directive

Xi: Irritating Xn : Harmful

Risk Phrases :

R10, R66, R67, R20/21, R52, R53

Safety Phrases:

S2, S23, S36/37/S39, S38, S46

Physical / Chemical Hazards:Flaming.

Health hazards for humans: Repeated exposure may cause skin dryness and cracks.

Steam can cause drowsiness and dizziness.

Environmental Hazards: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other hazards not included in the classification:Long term or repeated contact may cause skin dryness and irritation.

According to healty indication for more information look at the section 15.

According to H declarations which mentioned above look at the section 15.

4- FIRST AID AND MEASURES

Eyes: if you have remove contact lenses .A few minutes rinse with water holding eyelis open. Do not rubbing and close the eyes. If the symptoms increase,medical help must be taken.

Leather: In case of contact with skin wash with plenty of water and soap. Take out contaminated clothing. Do not use thinner or other solvents. If irritation occurs, medical help must be taken.

Ingestion: If swallowed medical help must be taken.Show product box and label.Do not allow vomiting. If there is loss of consciousness do not give anything to the mouth, hold the exposed person in a lying position.



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Inhalation : Remove person to fresh air immediately. If there is Inhalation difficulty,give oxygen. If necessary do artificial respiration. If the condition does not improve consult a doctor.

5- FIGHTING MEASURES

5.1 Extinguishing Media:

Fire-Fighting Equipment Used In: Carbon dioxide, chemical powder, foam.(For big fires Alcohol-resistant foam)

Extinguishing Media which must not be used for safety reason : Full jet of water .Using full jet of water may effect fire splashing and spreading.

The person who extinguishes the fire must wear special protective clothing.Must use self-breathing masks that cover the face.

6- FORMATION OF ACCIDENT PRECAUTIONS

Personal precautions/Personel Protection:Use personel protective equipment.Avoid to breathe steams,fog or gas.Use mask.Use well ventilated area.Remove all the fire sources.Do not contact with the skin.

Environmental Protection Precautions :

Do not allow spilled material to enter the Sewer system,sources of drinking water supply or waterways.

Cleaning/Collection/Disposal Methods:

Collect spilled product and collect with dry sand or similar inert material and dispose it according to local regulations.Dirty place must be well cleaned.If It is spreading environment, Information should be given to the authorized units.

7- HANDLING AND STORAGE

Handling : In order to protect health, safety and the environment, employer, related to measures to be taken in works and workplaces where dangerous chemicals are,published in the official news dated 26/12/2003 and numbered 25328 "Regulation on Health and Safety Precautions in working with Chemical Matters" care should be taken to ensure that the work procedures in the workplace are planned and that organizational measures are taken.



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Use it in a well ventilated area then wash your hands well. Take out contaminated clothing and wash before reuse. Use personal protective equipment. Do not contact with eyes, skin and clothes. Keep it in a tightly closed container. Avoid heat, sparks and flame contact. Use it with well ventilated area. Avoid breathe steam or mist .

Storage : Keep it in a tightly closed container. Keep away from contact with oxidizing materials. Keep in a cool, dry and well ventilated area separate from the items to be avoided. Keep away from active metals .Ground all the equipment. Avoid to store together with incompatible materials.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls limits are listed at the below. Use it with well ventilated area. If exposed to a density above the limit use suitable and approved gas masks.

Material Name	Exposure Limit Values
N-Butly Acetate	NIOSH REL (ABD, 10/2013). STEL: 950 mg/m ³ 15 minutes STEL: 200 ppm 15 minutes TWA: 710 mg/m ³ 10 hours TWA: 150 ppm 10 hours
Methy Amyl Keton	CAS 110-43-0 TRGS 900: Mak : 238 mg/m ³ 8 hours TWA 50 gr mg/m ³ STEL: 475 mg/m ³ STEL: 100 ppm
Butly Acetate	CAS : 822-06-0 TRGS 900 Max 0.005 ppm, 0.035 mg/m ³ , 1;(1): DFG, 12
Isocyanate	CAS : 123-86-4 TWA 150 ppm, 724 mg/m ³ STEL: 200 ppm, 966 mg/m ³



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Exposure Controls:

Keep away from food, drink or smoke. Avoid contact with the eyes and skin. Before and after working wash the hands well. Do not breathe steam/fog. If there is exposure control use below mentioned personal protective equipment .

Eye Protection : Use suitable protective glasses (regarding to EN 166).

Hand Protection: It is advisable to wear protective gloves such as butyl or nitrile.

Respiratory Protection: Use full face mask combined with respiratory cartridge which is suitable for EN 143 Abek (EN 14387).

Skin and Body Protection: Regarding to your work type, choose the best protective body equipment.

Hygiene Measures: Carry it according to industrial hygiene and safety regulations. Wash your hands before stopping work and at the end of the work.

Environmental exposure Controls:

Product and packaging are not exported. For the protection of the environment all the issues must be done regarding to existing legislation.

9- PHYSICAL AND CHEMICAL PROPERTIES

General Information:

Appearance	Liquid
Flavor	Characteristic
Colour	Transparent
Density (g/cm ³) (20°C)	0,96
Point of ignition (°C)	32
Resolution	Soluble in its own solvents but solubility in water is very poor.

10- STABILITY AND REACTIVITY

Stability: Stable under normal storage and handling conditions closed container room temperature.

Thermal decomposition/Situations to avoid: It's a flammable substance. Keep away from strong oxidizing agents, peroxide, strong acids and bases. Keep away from heat sources and sunlight. Avoid situations that create static electricity.



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Hazardous Defect Products : Under normal conditions of use and storage, hazardous defect and decomposition products will not occur.

11- TOXICOLOGY INFORMATION

- Breathing** : Long-term resolution causes irritation.
- Swallowing** : If it is swallowed, it causes a damage to the stomach, food pipe and gastrointestinal.
- Skin Contact** : Causes skin irritation and dryness.
- Eyes Contact** : Serious and permanent damage may be caused.
- Acute Toxicity** : There are no acute toxicity values of the substance.

12- ECOLOGICAL INFORMATION

Ecotoxicity : No test results are available for this product. Mixture judged according to the regulation of (AT) Nr. 1272/2008 regulation and not classified as dangerous for the environment. The product should not be allowed to mix with soil, ground water and sewerage. It does not dissolve in nature due to its ingredients.

13- DISPOSAL CONSIDERATIONS/ SUGGESTIONS FOR PRODUCT DISPOSAL

Disposal Instructions: Disposal must be suitable for the existing statutes and regulations and the material specifications during the destruction. Contact with manufacturer for recycling.

Wastes of Residues/Unused Products: Remove waste and residues in accordance with local regulations.

Uncleaned packages: In the emptied containers product residue may remain, so follow the warning on the label even after the container has been emptied.



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14- TRANSPORT INFORMATION

Product Transport Name: Paint and paint related material

Road Transport – ADR :

UN No	1263	Class	3; Flammable liquid
Packing Group	III	Packing Group	P001, IBC03,LP01, R001
Special judgment	163, 367, 640E, 650	Limited Quantity	5 L
Exemption	1.000 lt.	Exceptional Quantity	E1
Hazard Identification	33	Tunnel Category	D/E

Sea Transport – IMDG :

UN No	1263	Class	3; Flammable liquid
Packing Group	III	Packing Group	P001, IBC03,LP01,R001
Special judgment	163, 223, 955	Limited Quantity	5 L
Pollution	Yes-Category A	EMS No	F-E, S-E

Air Transport– IATA :

UN No	1263	Class	3; Flammable liquid
Packing Group	III	Packing Group	P001, IBC03,LP01,R001
Limited Quantity	10 L / Y344	Maximum Quantity	60L/Y355
Packing code			
Maximum Quantity	220L/Y336	ERG-No	3L

15 – LEGISLATION INFORMATION

15.1 Safety, Health and Environmental Regulations / Special Legislation for Product or Mixture

EU Legislation : This product has been supplied as a labeled and categorized according to Directive 1999/45 / EC.

Hazard symbols: Xn- Harmful, N- Dangerous for the environment

Risk class: R10- Flammable



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Shortened R phrases :

- R10 : Flammable
- R38 : Irritating to skin.
- R51/53 : Toxic to aquatic organisms. May cause long term adverse effects.
- R48/20 : Risk of serious damage to health if inhaled for long periods of time.
- R66 : Repeated contact causes dryness and cracks on the skin.
- R67 : Steam may cause dizziness and drowsiness.

Shortened S phrases :

- S2 : Keep away from children's reach.
- S16 : Keep away from ignition sources.– Do not smoke.
- S23 : Do not breathe steam.
- S24 : Do not contact with skin.
- S36/37/39 : Use protective clothing,gloves,mask and glasses.
- S13 : Keep away from food,drink and animal feed.
- S43 : In case of flammability use suitable extinguisher.
- S46 : If swallowed medical help must be taken.Show product box and label.
- S61 : Prevent it from swinging around. Follow the instructions.

Shortened H phrases:

- H315 : Irritates skin
- H226 : Fammable liquid and steam.
- H332 : It is harmful when breathe.
- H312 : It is harmful when contact with skin.
- H336 : Possible risk of harm to fertility and unborn
- H3361f : May damage fertility.
- H304 : if swallowed,May cause damage to lungs.
- H411 : Long-term effect poisonous for life on the water.
- EUH066 : Repeated exposure causes dryness and cracks on the skin.

Shortened Prevention Phrases:

- P210 : Keep away from ignition sources
- P233 : Keep it in a tightly closed container
- P240 : Keep the container in the suitable package and place.



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- P241 : Use Electricity / Ventilation / lighting / equipment against to explosion.
- P242 : Take precautions against to static discharge.
- P261 : Do not breath gas, steam,fog.
- P280 : Use protective clothes,gloves,glasses and face.
- P264 : If there is any connection with the skin wash with plenty of water.
- P271 : Use it in a well ventilated place.
- P260 : Do not breathe it.
- P201 : Before using read instructions.
- P202 : After reading all instructions handling it.
- P273 : Avoid spreading around.
- P281 : Use all necessary personel equipment.

Shortened Reaction Phrases:

- P303-P361-P353 : In case of contact with skin take out contaminated clothing.Wash the skin with water and soap slowly.
- P305-351-338 : In case of contact with eyes wash with plenty of water.If you have remove contact lenses.
- P332-313 : If there is a damage on the skin consult a doctor.
- P304-340 : In case of inhalation remove person to fresh air.Hold in a lying position to have well breath.
- 363 : Wash contaminated clothing before resuse.
- P312 : If there is any problem apply a doctor.
- P302-352 : In case of contact with skin wash with soap slowly.

Shortened Storage Phrases :

- P403-235 :Keep it in a well vantilated area.Keep it cold
- P405 : Keep it in a tightly closed container.

Shortened Disposal Phrases:

- P501 : Dispose of it according to your legal obligations.

15.2 Other Legislation

- 1907/2006 (REACH) (CE) arrangement disapproved items : Invalid
- Regarding to ozon layer corrosive substances 1005/2009 (CE) arrangement : Invalid
- 98/8/CE Directive Additional I or at IA Non-active ingredients: Invalid



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Due to hazardous materials import and export 689/2008 (CE) arrangement: Inavlid
For some metarials and hazardous mixtures marketing and using limitations (REACH Regulation additional XVII): Invalid
For the persons or environment special provisions on protection : All precautions İn MSDS should be taken.
Other legislation: Invalid.

16- OTHER İNFORMATIONİS

Additional Information:

Regarding to information in this document,the best information has been given.It is not certainty guarantee.These information only for safety transport,handling,processing,storage,transport, destruction and evacuation.These informations are valid only for specified item/preparation and If this item/preparation compare with other item/preparation or using with other process may not be valid.

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