

SAFETY DATA SHEET according to Regulation 1907/2006

Product name: **HARDENER FOR UHS 2K AIRDRY CLEAR COAT**

Creation date: **2.2.2011**

Revision: **10.11.2017**

Version: **1**



Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name

HARDENER FOR UHS 2K AIRDRY CLEAR COAT

Product code

ET975-HARD*

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use

Hardener

Uses advised against

No information

1.3. Details of the supplier of the safety data sheet

Manufacturer

ETALON is a brand of Alexport Company.
Pontou 26, P.C. 546 28, Thessaloniki, Greece,
Tel: +30 2310 501814, Fax: +30 2310 524 771
info@alexport.gr, www.alexport.gr
www.etalon-refinish.com

1.4. Emergency telephone number

Emergency

122 or call your doctor/local poison center

Section 2. Hazards identification

2.1. Classification of the substance or mixture:

Classification according to Reg. 1272/2008

Flam. Liq. 3; Flammable liquid and vapour.

H226

Skin Sens. 1; May cause an allergic skin reaction.

H317

STOT SE 3; May cause drowsiness or dizziness.

H336

2.2. Label elements :

2.2.1. Symbol letter(s):



Signal word: **Warning**

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
P240	Ground/bond container and receiving equipment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local regulation.

2.2.2. Contains:

1,6-hexamethylene diisocyanate homopolymer (CAS: 28182-81-2, EC: 500-060-2)

n-butyl acetate (CAS: 123-86-4, EC: 204-658-1, Index: 607-025-00-1)

2.2.3. Special provisions:

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Special hazards are not known or expected.

2.3. Other hazards:

No information

Section 3. Composition/information on ingredients

3.1. Substances

For mixtures see 3.2.

3.2. Mixtures

Chemical name	CAS, EC, Index	%	Classification according to Regulation (EC) No 1272/2008 [CLP]	REACH reg. number
1,6-hexamethylene diisocyanate homopolymer	28182-81-2 500-060-2 -	40-60	Skin Sens. 1; H317	-
n-butyl acetate	123-86-4 204-658-1 607-025-00-1	40-60	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	-
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7	15-30	Flam. Liq. 3; H226	-
2-butoxyethyl acetate	112-07-2 203-933-3 607-038-00-2	1-3	Acute Tox. 4; H312 Acute Tox. 4; H332	-
p-toluenesulphonyl isocyanate	4083-64-1 223-810-8 615-012-00-7	0-0,5	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 STOT SE 3; H335 EUH014	01-2119980050-47

Section 4. First aid measures

4.1. Description of first aid measures

General measures

-

Inhalation

Ventilate the premises. Inhale fresh air. Remove patient to fresh air-move out of dangerous area. Victim should rest in a warm place. If difficulties with breathing do not stop, search for medical help.

Skin contact

Wash affected skin areas thoroughly with plenty of water and soap! If feeling unwell seek medical help.

Eye contact

Immediately flush eyes with running water, keeping eyelids open. If irritation persist, seek professional medical attention.

Ingestion

Do not induce vomiting. Immediately consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

-

Skin contact

No data available.

Eye contact

-

Ingestion

-

4.3. Indication of any immediate medical attention and special treatment needed

-

Section 5. Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂).

Chemical powder.

Foam.

Water spray.

Unsuitable extinguishing media

No special precautions required.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

-

5.3. Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray jet. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

self-contained breathing apparatus

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Wear suitable protective face mask, protective gloves and clothing.

Emergency procedures

Ensure adequate ventilation.

6.1.2. For emergency responders

-

6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental entry into water or ground occurs, inform responsible authorities.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

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6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it according to valid regulations on handling with waste.

6.3.3. Other information

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6.4. Reference to other sections

See also sections 8 and 13.

Section 7. Handling and storage

7.1. Precautions for safe handling

7.1.1. Protective measures

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Measures to prevent fire

-

Measures to prevent aerosol and dust generation

-

Measures to protect the environment

-

7.1.2. Advice on general occupational hygiene

Do not breathe vapours/mist. Consider measures required in point 8. in this Data Sheet. Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Keep away from open fire, heat, sparks and direct sunlight. Keep in cool and well ventilated area.

7.2.2. Packaging materials

-

7.2.3. Requirements for storage rooms and vessels

-

7.2.4. Storage class

-

7.2.5. Further information on storage conditions

-

7.3. Specific end use(s)

Recommendations

Keep away from incompatible material (see section 10).

Industrial sector specific solutions

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Section 8. Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational Exposure limit values

Chemical name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m3 (ppm)	mg/m3	ml/m3 (ppm)	mg/m3		
2-Butoxyethyl acetate (112-07-2)	20	133	50	332	Sk	
Butyl acetate (123-86-4)	150	724	200	966		
1-Methoxypropyl acetate (108-65-6)	50	274	100	548	Sk	

Exposure limit values (IUCLID)

No information

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

8.1.3. DNEL values

No information

8.1.4. PNEC values

No information

8.2. Exposure controls

8.2.1. Appropriate engineering control

Technical measures to prevent exposure

Provide good ventilation and local exhaust in the area with increased concentration.

8.2.2. Personal protective equipment

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Eye and face protection

Tight fitting protective goggles (EN 166).

Hand protection

Protective gloves (EN 374).

Skin protection

Cotton protective clothing (EN ISO 13688) and shoes that cover the entire foot (EN ISO 20345).

Respiratory protection

Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). Filter type CEN/FFP-2(S) ali CEN/FFP-3(S).

Thermal hazards

-

8.2.3. Environmental exposure controls

-

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- Physical state: liquid
- Colour: colourless
- Odour: solvent like

Important health, safety and environmental information

-	pH	No information
-	Melting point/Freezing point	No information
-	Initial boiling point/boiling range	No information
-	Flashpoint	25 °C
-	Evaporation rate	No information
-	Ignition temperature	No information
-	Explosion limits (vol%)	No information
-	Vapour pressure	No information
-	Vapour density	No information

-	Density	Density: 0,96 – 1,07 g/cm ³
-	Solubility	No information
-	Partition coefficient	No information
-	Auto-ignition temperature	No information
-	Decomposition temperature	No information
-	Viscosity	No information
-	Explosive properties	No information
-	Oxidising properties	No information

9.2. Other information

-	Solid contents	49,3 %
-	Remarks:	

Section 10. STABILITY AND REACTIVITY

10.1. Reactivity

-

10.2. Chemical stability

Product is stable under normal conditions according to handling and storage.

10.3. Possibility of hazardous reactions

-

10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, free sparks.

10.5. Incompatible materials

Oxidants.
Strong acids. Alkali metal.

10.6. Hazardous decomposition products

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Inflammable gases and vapours are generated. It may generate toxic gases on contact with oxidising mineral acids and powerful oxidising agents. It may generate flammable gases and powerful reducing agents on contact with metals.

Section 11. Toxicological information

11.1. Information on toxicological effects

11.1.1. Acute toxicity

For components

Chemical name	exp. route	Type	species	Time	value	Method	Remark
n-butyl acetate (123-86-4)	oral	LD ₅₀	mouse		6 mg/kg		
n-butyl acetate (123-86-4)	oral	LD ₅₀	rat		10768 mg/kg		
2-methoxy-1-methylethyl acetate (108-65-6)	dermal	LD ₅₀	rat		5000 mg/kg		
2-methoxy-1-methylethyl acetate (108-65-6)	oral	LD ₅₀	rat		8532 mg/kg		
2-butoxyethyl acetate (112-07-2)	dermal	LD ₅₀	rat		1580 mg/kg		

11.1.2. Skin corrosion/irritation, serious eye damage/irritation

No information

11.1.3. Respiratory or skin sensitisation

Additional information

May cause sensitization by skin contact.

11.1.4. Carcinogenicity, Mutagenicity, Reproductive toxicity

Carcinogenicity

No information

(Germ cell) mutagenicity

No information

Reproductive toxicity

No information

Summary of evaluation of the CMR properties

No information

11.1.5. STOT - single and repeated exposure

No information

11.1.6. Aspiration hazard

No information

Section 12. Ecological information

12.1. Toxicity

12.1.1. Acute (short-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
n-butyl acetate (123-86-4)	EC ₅₀	32 mg/L	48 h	crustacea			
	LC ₅₀	18 – 19 mg/L	96 h	fish			
	LC ₅₀	62 mg/L	96 h	fish			
	LC ₅₀	185 mg/L	96 h	fish			
	LC ₅₀	18 mg/L	96 h	fish			
	LC ₅₀	100 mg/L	96 h	fish			
2-methoxy-1-methylethyl acetate (108-65-6)	LC ₅₀	100 – 180 mg/L	96 h	fish			
	EC ₅₀	500 mg/L	48 h	crustacea			

Acute toxicity of ingredients (IUCLID)

No information

12.1.2. Chronic (long-term) toxicity

No information

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12.2. Persistence and degradability

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information

12.2.2. Biodegradation

No information

12.3. Bioaccumulative potential

12.3.1. Partition coefficient

No information

12.3.2. Bioconcentration factor (BCF)

No information

12.4. Mobility in soil

12.4.1. Known or predicted distribution to environmental compartments

No information

12.4.2. Surface tension

No information

12.4.3. Adsorption/Desorption

No information

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information

12.7. Additional information

For product

Do not allow to enter ground water, water course or sewage system.

Section 13. Disposal considerations

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Recycle or dispose according to official regulations: to leave it to authorized collector/remover/transformer of hazardous waste.

Packaging

Completely emptied containers leave to approved waste disposal authorities in charge.

13.1.2. Waste treatment-relevant information

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13.1.3. Sewage disposal-relevant information

-

13.1.4. Other disposal recommendations

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Section 14. Transport information

14.1. UN number

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UN 1263

14.2. UN proper shipping name

PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

3

14.4. Packing group

III

14.5. Environmental hazards

NO

14.6. Special precautions for user

Limited quantities

5 L

Tunnel restriction code

(D/E)

IMDG flashpoint

25 °C, c.c.

15/19

IMDG EmS

F-E, S-E

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Goods may not be carried in bulk in bulk containers, containers or vehicles



Section 15. Regulatory information

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)(including last amendment Commission Regulation (EU) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16. Other information

Indication of changes

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Key literature references and sources for data

-

List of relevant H phrases

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H226 Flammable liquid and vapour.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

EUH014 Reacts violently with water.

EUH066 Repeated exposure may cause skin dryness or cracking.

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.