

Material Safety Data Sheet according 91/155/EEC

Product Name: Hardener V-5795, 2507.0001

Print date: 03.03.05

Revision date: 28.01.05



1. IDENTIFICATION OF THE PREPARATION AND COMPANY.**Product Name and Code** : Hardener V-5795 for
Eclon-EP-2K-DS-Steel Primer**Name of the company:**

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2. COMPOSITION/INFORMATION ON INGREDIENTS.**Substances presenting a health hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.**

EINECS-No.	Names	Symb.	Conc.
CAS-No.	R-phrases		
215-535-7	xylene, mixture of isomers		
1330-20-7	10-20/21-38	Xn	10 - 12.5
202-849-4	ethylbenzene		
100-41-4	11-20	Xn,F	2.5 - 5
203-132-9	propylbenzene		
103-65-1	10-37-51/53-65	Xn,N	< 0.5
203-604-4	mesitylene		
108-67-8	10-37-51/53	Xi,N	0.5 - 1
203-539-1	1-methoxy-2-propanol		
107-98-2	10		5 - 10
203-550-1	4-methylpentan-2-one		
108-10-1	11-20-36/37-66	Xn,F	1 - 2.5
202-436-9	1,2,4-trimethylbenzene		
95-63-6	10-20-36/37/38-51/53	Xn,N	1 - 2.5
265-199-0	Solvent naphtha (petroleum), light arom.; Low boiling point		
64742-95-6	naphtha - unspecified		
	10-37-65-66-67-51/53	Xn,N	5 - 10

See full text of R-phrases under chapter 16

3. HAZARDS IDENTIFICATION OF THE PREPARATION.

Danger classification : Xn harmful

10 Flammable.

20/21/22 Harmful by inhalation, in contact with skin and if
swallowed.52/53 Harmful to aquatic organisms, may cause long-term adverse
effects in the aquatic environment.

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4. FIRST AID MEASURES.

General :

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation :

Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

Eye contact :

Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

Skin contact :

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion :

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

5. FIRE-FIGHTING MEASURES.

Extinguishing media : recommended : alcohol resistant foam, CO₂, powders, waterspray

not to be used : waterjet.

Recommendations: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES.

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses.

Clean preferably with a detergent; avoid use of solvents.

If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

7. HANDLING AND STORAGE.

Handling.

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type.

Keep container tightly closed. Isolate from sources of heat, sparks and open flame. No sparking tools should be used.

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Avoid skin and eye contact. Avoid inhalation of dust, particulates and spray mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Smoking, eating and drinking should be prohibited in application area.

For personal protection see Section 8.

Never use pressure to empty : container is not a pressure vessel.

Always keep in containers of same material as the original one.

Comply with the health and safety at work laws.

Storage.

Although the storage and use of this product is not subject to specific statutory requirements, observation of the principles of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations as appropriate will be seen as good industrial practice in meeting the general duties of the Health and Safety at Work Act.

Observe label precautions. Store between 15 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunlight.

Keep away from sources of ignition. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

Engineering Measures.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Exposure Limits.

Occupational exposure limit for :

EINECS-No.	Names	STEL	LTEL
215-535-7	xylene, mixture of isomers	150.000	100.000 ppm
202-849-4	ethylbenzene	125.000	100.000 ppm
203-539-1	1-methoxy-2-propanol	300.000	100.000 ppm
203-550-1	4-methylpentan-2-one	100.000	50.000 ppm
202-436-9	1,2,4-trimethylbenzene		20.000 ppm
265-199-0	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha unspecified		100.000 mg/m3

Personal Protection.

Respiratory protection:

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

Hand protection:

For prolonged or repeated handling, use Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection:

Use safety eyewear designed to protect against splash of liquids.

Skin protection:

Personnel should wear anti-static clothings made of natural fibre or of high temperature resistant synthetic fiber.

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9. PHYSICAL AND CHEMICAL PROPERTIES.

Physical state	: viscous.	Method:
flash point	: 28	DIN 53213
viscosity at 20 °C:	200 s 4 mm	DIN 53211
specific gravity	: 1.44	
vapour density	: 2	
lower explosion limit:	1.5	
solubility in water	: not soluble	

10. STABILITY AND REACTIVITY.

Stable under recommended storage and handling conditions (See section 7). When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

11. TOXICOLOGICAL INFORMATION.

There are no data available on the preparation itself. The preparation has been assessed following the conventional methods of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Chapter 2 and 15 for details.

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

The liquid splashed in the eyes may cause irritation and reversible damage.

12. ECOLOGICAL INFORMATION.

The product should not be allowed to enter drains or water courses.

13. DISPOSAL CONSIDERATIONS.

Do not allow into drains or water courses.

Wastes and emptied containers should be deposited according to the official rules.

Code of waste Waste Designation:
080111 waste paint and varnish containing organic solvents or other dangerous substances

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14. TRANSPORT INFORMATION.

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

ADR/RID Class: KEINE GÜTER DER KLASSE 3
bei Gebinden > 450 l Klasse 3

Tremcard: n.a.

UN-No: n.a.

Transport document name: n.a.

Packaging group: n.a.

IMDG Class: 9

Tremcard: 9

EmS: F-A, S-F

UN-No: 3082

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.
Resin Solution

Packaging group: III

IMDG > 30 L: 3

Tremcard: 3

EmS: F-E, S-E

UN-No: 1263

Proper shipping name: PAINT

Packaging group: III

marine pollutant: p Resin Solution

ICAO/IATA Class: 3

UN No: 1263

Proper shipping name: Paint

Packaging group: III

15. REGULATORY INFORMATION.

In accordance with requirements of the Classification Packaging and Labelling of Dangerous Substances Regulations.

The product is labelled as follows :

Danger classification :

Xn harmful

Contains:

n.a.

R-phrases:

10 Flammable.

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

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases:

36/37 Wear suitable protective clothing and gloves.

38 In case of insufficient ventilation, wear suitable respiratory equipment.

51 Use only in well-ventilated areas.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

23 Do not breathe vapour.

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other phrases:

n.a.

16. OTHER INFORMATION.

Full text of R-phrases with no. appearing in section 2:

10	Flammable.
20/21	Harmful by inhalation and in contact with skin.
38	Irritating to skin.
11	Highly flammable.
20	Harmful by inhalation.
37	Irritating to respiratory system.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
36/37	Irritating to eyes and respiratory system.
66	Repeated exposure may cause skin dryness or cracking.
36/37/38	Irritating to eyes, respiratory system and skin.
67	Vapours may cause drowsiness and dizziness.

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.