



This safety data sheet is drawn up in accordance with The Procurement and Delivery Directive of Safety Data Sheet Concerning the Dangerous Substances and Preparations (26/12/2008-RG: 27092 repetitive).

## SAFETY DATA SHEET

e-5+1 HS ACRYLIC PRIMER  
Date of Issue: 26/01/2011  
Safety Data Sheet No:PL0EAC51

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product name and/or code** :e-5+1 HS ACRYLIC PRIMER  
**Product Use** :Vehicle Refinishing Paint  
**Manufacturer** :Polaron Boya Kimya Sanayi ve Ticaret Anonim Şirketi  
Istanbul Deri Organize Sanayi Bölgesi  
15.Yol III-1 ABCÇ Parsel Tuzla/Istanbul  
Türkiye  
Tel: +90 216 394 24 35  
Fax: +90 216 394 24 36  
**Emergency telephone number** : +90 216 394 24 35 (during day time)  
(114) National Poisoning Information Centre

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting health or environmental hazard are described in the context of the Directive of Classification, Packaging and Labeling of Dangerous Substances and Preparations (26/12/2008 RG: 27092 Repetitive).

Chemical Name	CAS Number	%	EC Number	Classification
xylene	1330-20-7	2-7	215-535-7	R10 Xn; R20/21 Xi; R38
ethyl acetate	141-78-6	2-12	205-500-4	F; R11 Xi; R36 R66, R67
n-butyl acetate	123-86-4	2-12	204-658-1	R10 R66, R67
ethylbenzene	100-41-4	1-5	200-751-6	F; R11 Xn; R20
<b>See section 16 for the full text of the R phrases declared above</b>				

Occupational exposure limits, if available, are listed in section 8.

### 3. HAZARD IDENTIFICATION

The preparation is classified in the context of the Directive of Classification, Packaging and Labeling of Dangerous Substances and Preparations (26/12/2008 RG: 27092 Repetitive).

**Classification** :R10  
Xi; R38  
R67

### 3. HAZARD IDENTIFICATION

<b>Physical/chemical hazards</b>	:Flammable
<b>Human health hazards</b>	:Irritating to skin. Vapours may cause drowsiness and dizziness.
<b>Additional warning phrases</b>	:Contains 2-hydroxyethyl methacrylate. May produce an allergic reaction.

### 4. FIRST AID MEASURES

#### First-aid measures

<b>General</b>	:In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
<b>Inhalation</b>	:Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
<b>Skin contact</b>	:Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
<b>Eye contact</b>	:Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
<b>Ingestion</b>	:If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

### 5. FIRE-FIGHTING MEASURES

<b>Extinguishing media</b>	:Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray. Not to be used: water jet.
<b>Recommendations</b>	: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 release runoff from fire to drains or watercourses.

### 6. ACCIDENTAL RELEASE MEASURE

<b>Personal precautions</b>	:Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
<b>Spill</b>	:Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**Note: see section 8 for personal protective equipment and section 13 for water disposal.**



## 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 vapours in air and avoid vapour concentrations 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.

To dissipate static electricity during transfer, earth drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

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

Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Put on appropriate personal protective equipment (see section 8).

Never use pressure to empty. Container is not pressure vessel. Always keep in containers made from the same material as the original one.

### **Storage**

Comply with the health and safety at work laws.

:Store in accordance with local regulations. Observe label precautions. Store in a cool, well-ventilated area away from incompatible materials and ignitions sources.

Keep away from: oxidizing agents, strong alkalis, and strong acids.

No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not empty into drains.

## 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 vapours below the OEL, suitable respiratory protection must be worn.

### **Ingredient name**

n-butyl acetate

### **Occupational exposure limits**

**ACGIH TLV ( USA, 1/2009). Notes: 1998 Adoption.**

STEL: 200 ppm 15 minute/minutes. Form: All forms

TWA: 150 ppm 8 hour/hours. Form: All forms

**EU OEL (Europe, 12/2009). Absorbed through skin.** Notes: list of indicative occupational exposure limit values

STEL: 442 mg/m<sup>3</sup>, 0 times per shift, 15 minute(s).

STEL: 100 ppm, 0 times per shift, 15 minute(s).

TWA: 221 mg/m<sup>3</sup>, 0 times per shift, 8 hour(s).

TWA: 50 ppm, 0 times per shift, 8 hour(s).

xylene

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ethyl acetate	<b>80/1107/EEC (Europe)</b> TWA: 400 ppm CEIL: 300 ppm TWA: 1440 mg/m <sup>3</sup> CEIL: 1100 mg/m <sup>3</sup>
ethyl benzene	<b>EU OEL (Europe, 12/2009). Absorbed through skin.</b> Notes: list of indicative occupational exposure limit values. STEL: 884 mg/m <sup>3</sup> 15 minute(s). STEL: 200 ppm 15 minute(s). TWA: 442 mg/m <sup>3</sup> 8 hour(s). TWA: 100 ppm 8 hour(s).

### Personal protective equipment

<b>Respiratory system</b>	:If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirations.
<b>Skin and body</b>	:Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.
<b>Hands</b>	:For prolonged or repeated handling, use gloves: nitrile. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
<b>Eyes</b>	:Use safety eyewear designed to protect against splash of liquids.

### Environmental exposure controls

Do not allow to enter drains or watercourses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	:Liquid
<b>Colour</b>	:Gray
<b>Flash Point</b>	:Closed cup: 23 °C ( 73.4 °F)
<b>Specific gravity</b>	:1.451 (Water = 1)
<b>Vapour density</b>	:4 (Air = 1)
<b>Lower explosion limit</b>	:Lower: %0.8 Upper: %7
<b>Solubility</b>	:Insoluble in cold water, hot water.

## 10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: CO, CO<sub>2</sub>, smoke, oxides of nitrogen.

Keep away from following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, and strong acids.

## 11. TOXICOLOGICAL INFORMATION

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Directive of Classification, Packaging and Labeling of Dangerous Substances and Preparations (26/12/2008 RG: 27092 Repetitive) and classified for toxicological hazards accordingly. See sections 2 and 15 for details.



## 11. TOXICOLOGICAL INFORMATION

Exposure to component solvent vapour concentrations 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 the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, and fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n butyl acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
	LC50 Inhalation Vapour	Rat	390 ppm	4 hours
xylene	LD50 Dermal	Rabbit	>1700 mg/kg	-
	LD50 Intraperitoneal	Rat	2459 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
	LD50 Subcutaneous	Rat	1700 mg/kg	-
	LC50 Inhalation Vapour	Rat	5000 ppm	4 hours
	ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg
LD50 Dermal		Rabbit	17800 uL/kg	-
LD50 Oral		Rabbit	3500 mg/kg	-
TDL <sub>o</sub>		Rat	1062 mg/kg	-
LC50 Inhalation Vapour		Rat	55000 mg/m <sup>3</sup>	2 hours
ethyl acetate		LD50 Dermal	Rabbit	>20 mL/kg
	LD50 Oral	Rat	5620mg/kg	-
	LDLo	Rat	5 g/kg	-
	LC50 Inhalation Vapour	Rat	>6000 ppm	6 hours
	LC50 Inhalation Vapour	Rat	1600 ppm	4 hours
	<b>Conclusion/summary</b>	:Not available		
<b>Chronic toxicity</b>				
<b>Conclusion/summary</b>	:Not available			
<b>Carcinogenicity</b>				
<b>Conclusion/summary</b>	:Not available			
<b>Mutagenicity</b>				
<b>Conclusion/summary</b>	:Not available			
<b>Teratogenicity</b>				
<b>Conclusion/summary</b>	:Not available			
<b>Reproductive toxicity</b>				
<b>Conclusion/summary</b>	:Not available			
<b>Additional Warning Phrases</b>	:Contains 2-hydroxyethyl methacrylate. May produce an allergic reaction.			



## 12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself.  
 Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Directive of Classification, Packaging and Labeling of Dangerous Substances and Preparations (26/12/2008 RG: 27092 Repetitive) and is classified for eco-toxicological properties accordingly.

### Ecotoxicity data

<u>Product/ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
n-butyl acetate	Pimephales promelas (LC50)	96 hour/hours	66 mg/L
	Pimephales promelas (LC50)	24 hour/hours	205 mg/L
	Lepomis macrochirus (EC50)	72 hour/hours	675 mg/L
ethyl acetate	Salmo gairdneri (LC50)	96 hour/hours	454.7 mg/L
	Fish		
	Leuciscus idus melanotus (LC50)	48 hour/hours	270 mg/L
	Fish		
xylene	Daphnia magna (EC50)	48 hour/hours	717 mg/L
	Desmodesmus subspicatus (EC50)	48 hour/hours	3,300 mg/L
	Pseudomonas putida (EC10)	18 hour/hours	2,900 mg/L
	Oncorhynchus mykiss (LC50)	96 hour/hours	3,3 mg/L
	Oncorhynchus mykiss (LC50)	96 hour/hours	8.2 mg/L
	Lepomis macrochirus (LC50)	96 hour/hours	8.6 mg/L
	Lepomis macrochirus (LC50)	96 hour/hours	12 mg/L
	Lepomis macrochirus (LC50)	96 hour/hours	13.3 mg/L
ethylbenzene	Daphnia magna (EC50)	48 hour/hours	2.93 mg/L
	Daphnia magna (EC50)	48 hour/hours	2.97 mg/L
	Selenastrum capricornutum (EC50)	48 hour/hours	7.2 mg/L
	Oncorhynchus mykiss (LC50)	96 hour/hours	4.2 mg/L
	Pimephales promelas (LC50)	96 hour/hours	9.09 mg/L
	Poecilia reticulata (LC50)	96 hour/hours	9.6 mg/L

**Conclusion/Summary** :Not available.

### Ecological information

#### Persistence/degradability

**Conclusion/Summary** :Not available

## 13. DISPOSAL CONSIDERATIONS

Do not allow to enter drains or watercourses.  
 Dispose of according to all federal, state and local applicable regulations.

**Hazardous waste** :The classification of the product may meet the criteria for a hazardous waste.

## 14. TRANSPORT INFORMATION

### Land-road/railway

UN Number :1263  
Transport document name :Paint (n-butyl acetate)  
Special provision 640 :E  
ADR/RID Class :3  
Packing group :III  
ADR/RID Label :



### Sea

UN Number :1263  
Proper Shipping Name :Paint (n-butyl acetate)  
Special Provisions :Not available  
IMDG Class :3  
Packing Group :III  
IMDG Label :



Marine pollutant :No  
Emergency Schedules (EmS) :3-05

### Air

UN Number :1263  
Proper Shipping Name :Paint (n-butyl acetate)  
ICAO/IATA Classification :3  
Packing Group :III  
ICAO/IATA Label :



### Inland waterways

UN Number :1263  
Proper Shipping Name :Paint (n-butyl acetate)  
ADN/ADNR Classification :3  
Proper Shipping Name :III  
ADN/ADNR Label :



## 15. REGULATORY INFORMATION

**Regulations** :The product is labelled for supply in accordance with Directive of Classification, Packaging and Labeling of Dangerous Substances and Preparations (26/12/2008 RG: 27092 Repetitive)

**Hazard symbol or symbols:** Xi



**Risk phrases** Irritant  
:R10- Flammable.  
R38- Irritating to skin.  
R67- Vapours may cause drowsiness and dizziness.

**Safety Phrases** :S23- Do not breathe vapour or spray.  
S24- Avoid contact with skin.  
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection  
S51- Use only in well-ventilated areas.

**Additional Warning Phrases** :Contains 2-hydroxyethyl methacrylate. May produce an allergic reaction.

## 16. OTHER INFORMATION

**Full text of R-phrases** :R10- Flammable.  
**Referred to in sections 2 and 3** R11- Highly flammable.  
R20- Harmful by inhalation.  
R20/21- Harmful by inhalation and in contact with skin.  
R36- Irritating to eyes.  
R38- Irritating to skin.  
R66- Repeated exposure may cause skin dryness or cracking.  
R67- Vapours may cause drowsiness and dizziness.

This safety data sheet is drawn up in accordance with The Procurement and Delivery Directive of Safety Data Sheet Concerning the Dangerous Substances and Preparations (26/12/2008-RG: 27092 repetitive).

**Date of Issue** : 26/01/2011

### Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.