

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

P-ACRYL/C1 Metallic Base Coat
Date of Issue/revision: 15/03/2011
Version No: Rev.1.1
Safety Data Sheet No:PL0PC1BC

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

Product name and/or code :P-ACRYL/C1 Metallic Base Coat
Product use :Vehicle Refinishing Paint
Manufacturer :Polaron Boya Kimya Sanayi ve Ticaret Anonim Şirketi
İstanbul Deri Organize Sanayi Bölgesi
15.Yol III-1 ABCÇ Parsel Tuzla/İstanbul
Türkiye
Tel: +90 216 394 24 35
Fax: +90 216 394 24 36
Emergency telephone :+90 216 394 24 35 (during day time)
Number of the company

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
n-butyl acetate	123-86-4	25 – 50	204-658-1	R10 R66, R67
xylene	1330-20-7	12.5 – 25	215-535-7	R10 Xn; R20/21 Xi; R38
ethylbenzene	100-41-4	1 – 5	202-849-4	F; R11 Xn; R20
butan-1-ol	71-36-3	1 – 5	200-751-6	R10 Xn; R22 Xi; R41, R37/38
2-methoxy-1-methylethyl acetate	108-65-6	1 – 5	203-603-9	R67 R10 Xi; R36
2-methylpropan-1-ol	78-83-1	1 – 5	201-148-0	R10 Xi; R41, R37/38
solvent naphtha (petroleum), light arom.	64742-95-6	0 – 1	265-199-0	R67 R10 Xn; R65, Xi; R37
naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	0 – 1	265-185-4	R66, R67 N; R51/53 R 10 Xn; R65
See section 16 for the full text of the R phrases declared above				R66, R67 N; R51/53



2. COMPOSITION/INFORMATION ON INGREDIENTS

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

3. HAZARDS 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 Xn;R20/21 Xi;R36/38
Physical/chemical hazards	:Flammable
Human health hazards	:Harmful by inhalation and in contact with skin. Irritating to eyes and skin.
Additional warning phrases	:Contains Acrylates/Methacrylates CAS not available. May produce an allergic reaction.

4. FIRST AID MEASURES

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. If unconscious, place in recovery position and seek medical advice.
Inhalation	: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.
Skin contact	:Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Eye contact	:Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
Ingestion	: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

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

6. ACCIDENTAL RELEASE MEASURE

Personal precautions	:Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
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6. ACCIDENTAL RELEASE MEASURE

Spill :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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name

n-butyl acetate

xylene

ethyl benzene

butan-1-ol

2-methoxy-1-methylethyl acetate

2-methylpropan-1-ol

naphtha (petroleum), hydrotreated

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/m³, 0 times per shift, 15 minute(s).

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

TWA: 221 mg/m³, 0 times per shift, 8 hour(s).

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

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

STEL: 884 mg/m³ 15 minute(s).

STEL: 200 ppm 15 minute(s).

TWA: 442 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(s).

ACGIH TLV (United States, 1/2009). Notes: 2002 Adoption.

TWA: 20 ppm 8 hour(s).

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

STEL: 550 mg/m³ 15 minute(s).

STEL: 100 ppm 15 minute(s).

TWA: 275 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

ACGIH TLV (United States, 1/2009).

TWA: 152 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

EU OEL (Europe, 2003).

TWA: 575 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(s).

heavy

Personal protective equipment

Respiratory system

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

Skin and body

:Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

Hands

: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.

Eyes

: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

Physical state

:Liquid

Flash point

:Closed Cup: 23 to 25⁰C (73.4 to 77 ⁰F)

Relative density

:0.942 to 1.197

Vapour density

:3.8 [Air = 1]

Explosion limits

:Lower: 1.2 % Upper: 10.9%

Solubility

:Insoluble in the following materials: cold water and hot water.

10. STABILITY AND REACTIVITY

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

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen

Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, 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.

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, 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 the 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

<u>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
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	Rat	2459 mg/kg	-
	Intraperitoneal LD50 Oral	Rat	4300 mg/kg	-
	LD50	Rat	1700 mg/kg	-
	Subcutaneous LC50 Inhalation Vapour	Rat	5000 ppm	4 hours
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Dermal	Rabbit	17800 uL/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
	TDLo	Rat	1062 mg/kg	-
	Intraperitoneal LC50 Inhalation	Rat	55000 mg/m ³	2 hours
butan-1-ol	LD50 Dermal	Rabbit	3400mg/kg	-
	LD50	Rat	200 mg/kg	-
	Intraperitoneal LD50	Rat	310 mg/kg	-
	Intravenous LD50 Oral	Rat	790 mg/kg	-
	TDLo	Rat	400 mg/kg	-
	Intraperitoneal LC50 Inhalation Vapour	Rat	24000 mg/m ³	4 hours
	LC50 Inhalation Vapour	Rat	8000 ppm	4 hours

11. TOXICOLOGICAL INFORMATION

2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	
	LD50 Oral	Rat	8532 mg/kg	-
2-methylpropan-1-ol	LD50 Dermal	Rabbit	3400 mg/kg	
	LD50	Rat	720 mg/kg	-
	Intraperitoneal			
	LD50	Rat	340 mg/kg	-
	Intravenous			
	LD50 Oral	Rat	2460 mg/kg	-
	LC50 Inhalation	Rat	19200 mg/m ³	4 hours
	Vapour			
solvent naphtha (petroleum), light arom.	LD50 Oral	Rat	8400 mg/kg	-

Conclusion/Summary	:Not available.
<u>Chronic toxicity</u>	
Conclusion/Summary	:Not available.
<u>Carcinogenicity</u>	
Conclusion/Summary	:Not available.
<u>Teratogenicity</u>	
Conclusion/Summary	:Not available.
<u>Mutagenicity</u>	
Conclusion/Summary	:Not available.
<u>Reproductive toxicity</u>	
Conclusion/Summary	:Not available.
Additional warning phrases	:Contains Acrylates/Methacrylates CAS not available. 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
xylene	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
bütan-1-ol	Poecilia reticulata (LC50)	96 hour/hours	9.6 mg/L
	Goldfish (LC50)	48 hour/hours	>1000 mg/L
	Lepomis macrochirus (LC50)	96 hour/hours	100 mg/L

12. ECOLOGICAL INFORMATION

2-Metoksi -1-metiletilasetat 2-Metilpropan-1-ol	Pimephales promelas (LC50)	96 hour/hours	1730 mg/L
	Pimephales promelas (LC50)	96 hour/hours	1910 mg/L
	Pimephales promelas (LC50)	96 hour/hours	1940 mg/L
	Fish (LC50)	96 hour/hours	161 mg/L
	Scenedesmus subspicatusus (LC50)	96 hour/hours	>1000 mg/L
	Daphnia pulex (EC50)	48 hour/hours	>1000 mg/L
	Scenedesmus subspicatusus (EC50)	72 hour/hours	>100 mg/L
	Oncorhynchus mykiss (LC50)	96 hour/hours	1330 mg/L
	Pimephales promelas (LC50)	96 hour/hours	1430 mg/L
	Pimephales promelas (LC50)	96 hour/hours	1510 mg/L

Conclusion/Summary :Not available.

Ecological information

Biodegradability

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 :

14. TRANSPORT INFORMATION



Marine Pollutant :No
Emergency schedules :3-05
(EMS)

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)
ADNR Classification :3
Packing group :III
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 : Xn



Harmful

Risk phrases :R10- Flammable.
R20/21- Harmful by inhalation and in contact with skin.
R36/38- Irritating to eyes and skin.

15. REGULATORY INFORMATION

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

Additional warning phrases :Contains xylene. Contains Acrylates/Methacrylates. May produce an allergic reaction.

16. OTHER INFORMATION

Full text of R-phrases

Referred to in sections 2 and 3 :R10- Flammable.
R11- Highly flammable.
R20- Harmful by inhalation.
R20/21- Harmful by inhalation and in contact with skin.
R22- Harmful if swallowed.
R36- Irritating to eyes.
R37- Irritating to respiratory system.
R37/38- Irritating to respiratory system and skin.
R38- Irritating to skin.
R41- Risk of serious damage to eyes.
R48/25: Toxic: danger of serious damage to health by prolonged exposure if swallowed
R65- Harmful: may cause lung damage if swallowed.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 : 15/03/2011

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.