

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

H 30+ HARDENER SLOW
Date of Issue: 15/02/2011
Safety Data Sheet No: PL0PHSLW

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

Product name and/or code :H 30+ HARDENER SLOW
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
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(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
aliphatic polyisocyanate	28182-81-2	25-50	500-060-2	Xi; R43
n-butyl acetate	123-86-4	15-30	204-658-1	R10 R66, R67
2-methoxy-1-methylethylacetate	108-65-6	15-30	203-603-9	R10 Xi; R36
solvent naphtha (petroleum), light arom	64742-95-6	5-10	265-199-0	R10 Xn; R65 Xi;R37 R66, R67 N; R51/53
2-butoxyethyl acetate	112-07-2	5-10	203-933-3	Xn;R20/21
xylene	1330-20-7	2-8	215-535-7	R10 Xn; R20/21 Xi; R38
benzenesulfonyl isocyanate, 4-methyl-	4083-64-1	0-0,5	223-810-8	R14 Xi; R36/37/38 R42
See section 16 for the full text of the R phrases declared above				

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; R36, R43 R66, R67 N; R52/53
Physical/chemical hazards	:Flammable
Human health hazards	:Irritating to eyes. May cause sensitisation by skin contact. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
Environmental hazards	:Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Additional warning phrases	:Contains isocyanates. See information supplied by the manufacturer. This information is provided by the present Safety Data Sheet.

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.
Spill	:Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and for

6. ACCIDENTAL RELEASE MEASURE

place in container 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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

2-methoxy-1-methylethyl acetate	EU OEL (Europe, 12/2009). Absorbed through skin. Notes: list of indicative occupational exposure limit values STEL: 550 mg/m ³ 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 275 mg/m ³ 8 hour(s). TWA: 50 ppm 8 hour(s).
2-butoxyethyl acetate	EU OEL (Europe, 12/2009). Absorbed through skin. Notes: list of indicative occupational exposure limit values STEL: 333 mg/m ³ 15 minute(s). STEL: 50 ppm 15 minute(s). TWA: 133 mg/m ³ 8 hour(s). TWA: 20 ppm 8 hour(s).
xylene	EU OEL (Europe, 12/2009). Absorbed through skin. Notes: list of indicative occupational exposure limit values STEL: 442 mg/m ³ , 0 times per shift, 15 minute(s). STEL: 100 ppm, 0 times per shift, 15 minute(s). TWA: 221 mg/m ³ , 0 times per shift, 8 hour(s). TWA: 50 ppm, 0 times per shift, 8 hour(s).

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
Colour	:Clear
Flash Point	:Closed cup: 36 °C (96,8 °F)
Specific gravity	:0,980 (Water = 1)
Vapour density	:4,5 (Air = 1)
Lower explosion limit	:Lower: %2,8 Upper: %12,7
Solubility	:Insoluble in cold water, hot water.

10. STABILITY AND REACTIVITY

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

Hazardous decomposition products: CO, CO₂, 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.

11. TOXICOLOGICAL INFORMATION

See sections 2 and 15 for details.

Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

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
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	Vapour			
2-butoxyethyl acetate	LD50 Dermal	Rabbit	1500 mg/kg	-
	LD50 Oral	Rat	2400 mg/kg	-
aliphatic polyisocyanate	LC50 Inhalation	Rat	18500 mg/m ³	1 hour
	Vapour			
xylene	LC50 Inhalation Vapour	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1700 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
solvent naphtha (petroleum), light arom	LD50 Oral	Rat	8400 mg/kg	-

Conclusion/summary :Not available

Chronic toxicity

Conclusion/summary :Not available

Carcinogenicity

Conclusion/summary :Not available

Mutagenicity

Conclusion/summary :Not available

Teratogenicity

Conclusion/summary :Not available

Reproductive toxicity

Conclusion/summary :Not available

Additional Warning Phrases :Contains benzenesulfonyl isocyanate 4-methyl-, aliphatic polyisocyanate. 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.

12. ECOLOGICAL INFORMATION

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
2-methoxy-1-methylethyl acetate	Fish (LC50)	96 hour/hours	161 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
	Pimephales promelas (LC50)	96 hour/hours	13,4 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 related material (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 related material (n butyl acetate)
Special Provisions :Not available
IMDG Class :3
Packing Group :III
IMDG Label :



14. TRANSPORT INFORMATION

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

Air

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



Inland waterways

UN Number :1263
Proper Shipping Name :Paint related material (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



Irritant

Risk phrases :R10- Flammable.
R36- Irritating to skin.
R43- May cause sensitisation by skin contact.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.

Safety Phrases :S7/8- Keep container tightly closed and dry.
S16- Keep away from sources of ignition - No smoking
S23- Do not breathe vapour or spray.
S24- Avoid contact with skin.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

15. REGULATORY INFORMATION

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection

Additional Warning Phrases :Contains isocyanates. See information supplied by the manufacturer.

16. OTHER INFORMATION

Full text of R-phrases

Referred to in sections 2 and 3

- :R10- Flammable.
- R14- Reacts violently with water
- R20/21- Harmful by inhalation and in contact with skin.
- R36- Irritating to eyes.
- R37- Irritating to respiratory system
- R38- Irritating to skin.
- R36/37/38- Irritating to eyes, respiratory system and skin
- R42- May cause sensitisation by inhalation
- R43- May cause sensitisation by skin contact
- R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R65- Harmful: may cause lung damage if swallowed
- R66- Repeated exposure may cause skin dryness or cracking.
- R67- Vapours may cause drowsiness and dizziness.

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Date of Issue : 15/02/2011

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.