

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

PLR HS-Airport White High-Solid

Print date : 25.11.2009

Product code : 416096flh

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1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

PLR HS-Airport White High-Solid

Use of the substance/preparation

Solvent borne road marking paint

Company/undertaking identification

Company name:	PLASTIROUTE GmbH	
Street:	Renkenrunsstraße 16	
Place:	D-79379 Müllheim/Baden	
Post-office box:	1348	
	D-79373 Müllheim/Baden	
Telephone:	+49 7631 3687-0	Telefax: +49 7631 3687-36
Contact person:	Dr. Schumacher-Wandersleb Dr. Magenheimer	Telephone: -13 / -14
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Internet:	http://www.plastiroute.de	
Inquiry office:	Forschung und Entwicklung	

2. Hazards identification

Classification

Indications of danger : Highly flammable, Irritant

R-phrases :

Highly flammable.

Irritating to eyes.

Repeated exposure may cause skin dryness or cracking.

Until complete evaporation of flammable components explosive vapour-air mixtures may form, even after use.

Explication of special hazards for human health and environment

Vapours may cause drowsiness and dizziness. Process vapors can irritate airways, skin and eyes.

Prolonged/repetitive skin contact may cause skin defatting or dermatitis. Avoid contact with skin, eye and clothing.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Solvent borne road marking paint

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity
201-159-0	78-93-3	butanone; ethyl methyl ketone	10 - 15 %
		F, Xi R11-36-66-67	
		Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
203-550-1	108-10-1	4-methylpentan-2-one, isobutyl methyl ketone	5 - 10 %
		F, Xn, Xi R11-20-36/37-66	
		Flam. Liq. 2, Acute Tox. 4 *, Eye Irrit. 2, STOT SE 3; H225 H332 H319 H335	

Full text of each relevant R phrase can be found in heading 16.

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4. First aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

No administration in cases of unconsciousness or cramps.

If victim is at risk of losing consciousness, position and transport on their side.

After inhalation

Provide fresh air.

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

Clean with detergents. Avoid solvent cleaners.

After cleaning apply high-fat content skin care cream.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

If swallowed, do not induce vomiting: seek medical advice immediately and show this container label.

Advice to doctor

Observe labels and safety data sheets for chemicals used in processing.

5. Fire-fighting measures

Suitable extinguishing media

In case of fire, use sand, extinguishing powder or alcohol resistant foam.

Extinguishing media which must not be used for safety reasons

High power water jet. High power water jet.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Thermal decomposition can lead to the escape of irritating gases and vapors. In case of inhalation of decomposition products, take the affected person into the fresh air and sit him quietly.

Special protective equipment for fire-fighters

Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

Additional information

Due to gaseous decomposition products, overpressure can occur in tightly sealed containers.

Extinguishing materials should be selected according to the surrounding area.

6. Accidental release measures

Personal precautions

Do not breathe vapour. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Frequently or prolonged contact with skin may cause dermal irritation. Ventilate affected area.

Environmental precautions

Do not empty into drains or the aquatic environment. In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

Methods for cleaning up/taking up

Soak up inert absorbent and dispose as waste requiring special observation. Clear contaminated area thoroughly.

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Additional information

Remove mechanically, placing in appropriate containers for disposal. Treat the assimilated material according to the section on waste disposal. Waste disposal according to official state regulations.

7. Handling and storage

Handling

Advice on safe handling

Avoid contact with skin and eyes. Avoid exposure - obtain special instructions before use.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Storage

Requirements for storage rooms and vessels

Only use containers approved for especially this product. Suitable material for Container: metal. Keep container tightly closed. The floor should be leak tight, jointless and not absorbent. Keep away from sources of ignition - No smoking. Store in a place accessible only to authorized persons.

Advice on storage compatibility

Do not store together with:

Storage class: 1, 2A, 4.1A, 4.1B, 4.2, 4.3, 5.1A, 5.1C, 5.2, 6.1B, 6.2.

Further information on storage conditions

storage temperature: up to °C: +25

Keep only in the original container in a cool, well-ventilated place.

Storageclass (VCI):

3A

Specific use(s)/replacement product(s)

Moreover, national legislation has to be observed!

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS-No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
108-10-1	4-Methylpentan-2-one	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS-No.	Chemical name	Parameter	Value	Test material	Sampling time
108-10-1	4-methylpentan-2-one	4-methylpentan-2-one	20 µmol/L	urine	Post shift
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

Exposure controls

Occupational exposure controls

Use only in well-ventilated areas.

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Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace. Before starting work, apply solvent-cleaner-proof skin protection products. Wash hands before breaks and at the end of work. After cleaning apply high-fat content skin care cream. Avoid contact with skin, eye and clothing. Used working clothes should not be used outside the work area. Wash contaminated clothing prior to re-use.

Respiratory protection

Filter respirator (full mask or mouth-piece) with filter: A

Hand protection

Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Prolonged/repetitive skin contact may cause skin defatting or dermatitis. After cleaning apply high-fat content skin care cream.

Eye protection

Wear eye/face protection.

Skin protection

Wear suitable protective clothing, gloves and eye/face protection.

9. Physical and chemical properties**General information**

Physical state: liquid
Colour: white
Odour: like: ketone.

Important health, safety and environmental information**Changes in the physical state**

	Test method
Boiling point:	38 - 156 °C DIN 51751
Flash point:	-2 °C ISO 3679
Lower explosion limits:	1,2 vol. % DIN 51694
Upper explosion limits:	11,5 vol. % DIN 51694
Vapour pressure: (at 20 °C)	75 hPa prEN 13016-1
Vapour pressure: (at 50 °C)	< 370 hPa prEN 13016-1
Density (at 20 °C):	1,52 g/cm ³ DIN 53217
Water solubility: (at 20 °C)	OECD 105
Flow time: (at 23 °C)	30 - 50 6 DIN EN ISO 2431

Other information

Ignition temperature: > 470 °C DIN 51794

10. Stability and reactivity**Materials to avoid**

Keep away from strong acids, leachates, heavy metal salts and reducing materials. Oxidizing agents, strong.

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Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapors.

Hazardous decomposition products: Nitrogen oxides (NOx). Carbon dioxide (CO₂). Carbon monoxide.

11. Toxicological information

Corrosive and irritant effects

Irritating to eyes, respiratory system and skin.

Further information

Preparation not tested. Toxicological data are not available.

12. Ecological information

Further information

Preparation not tested. According to the present state of knowledge negative ecological effects are not expected.

13. Disposal considerations

Advice on disposal

Waste disposal according to official state regulations.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Waste disposal number of waste from residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

080113 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; sludges from paint or varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Cleaned containers may be recycled.

Hand over to officially registered waste disposal company.

14. Transport information

Land transport (ADR/RID)

UN number:	1263
ADR/RID class:	3
Classification code:	F1
Warning plate	
Hazard-no.:	33

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Hazard label: 3
ADR/RID packing group: II
Limited quantity: LQ6

Description of the goods

PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)

Other applicable information (land transport)

Special provisions: 163 640D 650
Transport category: 2
Tunnel restriction code: D/E

Inland waterways transport

UN number: 1263
ADNR class:
3
Classification code: F1
Hazard label: 3
Packing group: II
Limited quantity: LQ6

Description of the goods

PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)

Other applicable information (inland waterways transport)

Special provisions: 163 640D 650

Marine transport

UN number: 1263
IMDG code: 3
Marine pollutant: •
Hazard label: 3
IMDG packing group: II
EmS: F-E, S-E
Limited quantity: 5 L

Description of the goods

PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)

Other applicable information (marine transport)

Special provisions: 163, 944

Air transport

UN/ID number: 1263
ICAO/IATA-DGR: 3
Hazard label: 3
ICAO packing group: II
Limited quantity Passenger: 1 L
IATA-packing instructions - Passenger: 305
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 307
IATA-max. quantity - Cargo: 60 L

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Description of the goods

PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)

Other applicable information (air transport)

Passenger-LQ: Y305

Special provisions: A72

15. Regulatory information

Labelling

Danger symbols:

F - Highly flammable; Xi - Irritant



F - Highly flammable

Xi - Irritant

Hazardous component(s) to be indicated on label

butanone; ethyl methyl ketone
4-methylpentan-2-one, isobutyl methyl ketone

R phrases

- 11 Highly flammable.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.

S phrases

- 09 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe vapour .
- 24 Avoid contact with skin.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 33 Take precautionary measures against static discharges.

Special labelling for certain preparations

Restricted to professional users.

GHS labelling

EU regulatory information

1999/13/EC (VOC): 24,432 % (371,366 g/l)

National regulatory information

Employment restrictions: Observe employment restrictions for young people.
Water contaminating class (D): 1 - slightly water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- 11 Highly flammable.
- 20 Harmful by inhalation.
- 36 Irritating to eyes.
- 36/37 Irritating to eyes and respiratory system.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

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Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)