



## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### PLR-Thinner ACS-M

Print date : 15.05.2009

Product code : 437001

Page 2 of 8

#### 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. (Carbon monoxide.). 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). Wear chemical resistant suit.

##### Additional information

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

Extinguishing materials should be selected according to the surrounding area. Contaminated fire-fighting water must be collected separately.

#### 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.

## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### PLR-Thinner ACS-M

Print date : 15.05.2009

Product code : 437001

Page 3 of 8

#### 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.

#### 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 <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
108-10-1	4-Methylpentan-2-one	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		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

## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### PLR-Thinner ACS-M

Print date : 15.05.2009

Product code : 437001

Page 4 of 8

#### 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.

##### 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 2

##### 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 : colourless  
 Odour : like: ketone.

#### Important health, safety and environmental information

	Test method
<b>Changes in the physical state</b>	
Boiling point :	53 °C DIN 51751
Flash point :	-12 °C ISO 3679
Lower explosion limits :	1,2 vol. % DIN 51694
Upper explosion limits :	13,0 vol. % DIN 51694
Vapour pressure :	247 hPa prEN 13016-1
(at 20 °C)	
Vapour pressure :	828 hPa prEN 13016-1
(at 50 °C)	
Density (at 20 °C) :	0,798 g/cm <sup>3</sup> DIN 53217

## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### PLR-Thinner ACS-M

Print date : 15.05.2009

Product code : 437001

Page 5 of 8

Flow time :  
(at 23 °C)

6 DIN EN ISO 2431

#### Other information

Ignition temperature :

475 °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.

#### **Hazardous decomposition products**

Thermal decomposition can lead to the escape of irritating gases and vapors.  
Hazardous decomposition products: Nitrogen oxides (NO<sub>x</sub>). Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. (CO).

### 11. Toxicological information

#### **Acute toxicity**

Acetone  
LD50 (rat, oral) 5800 mg/kg  
LD50 (rabbit, oral) 20000 mg/kg

2-Butanon  
LD50 (rat, oral) 3300 mg/kg  
LD50 (rabbit, oral) 5000 mg/kg  
LC50 (rat, 4h) 36 mg/l

4-Methylpentan-2-on  
LD50 (rat, oral) 2100 mg/kg  
LC50 (rat, 4h) 8,3 - 16,6 mg/l

#### **Corrosive and irritant effects**

Irritating to eyes, respiratory system and skin.

#### **Sensitising effects**

no danger of sensitization.

#### **Additional information on tests**

Inhalation causes narcotic effects/intoxication.

#### **Further information**

Preparation not tested. Toxicological data are not available.

### 12. Ecological information

#### **Persistence and degradability**

Product is biodegradable.

#### **Bioaccumulative potential**

No indication of bio-accumulation potential. On the basis of existing data about disposal/decomposition and bio-accumulation potential, long term environmental damage is unlikely.

#### **Further information**

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

## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### PLR-Thinner ACS-M

Print date : 15.05.2009

Product code : 437001

Page 6 of 8

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

080121 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 or varnish remover  
Classified as hazardous waste.

### Waste disposal number of used product

080117 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; wastes from paint or varnish removal 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
Hazard label :	3
ADR/RID packing group :	II
Limited quantity :	LQ6

### Description of the goods

PAINT RELATED MATERIAL (including paint thinning or reducing compound)

### Other applicable information (land transport)

Special provisions: 163 640D 650

Transport category: 2

Tunnel restriction code: D/E

### Inland waterways transport

UN number :	1263
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**Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

**PLR-Thinner ACS-M**

Print date : 15.05.2009

Product code : 437001

Page 7 of 8

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

**Description of the goods**

PAINT RELATED MATERIAL (including paint thinning or reducing compound)

**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 RELATED MATERIAL (including paint thinning or reducing compound)

**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

**Description of the goods**

PAINT RELATED MATERIAL (including paint thinning or reducing compound)

**Other applicable information (air transport)**

ERG-Code: 3L  
Passenger-LQ: Y305  
Special provisions: A72

**15. Regulatory information**

**Labelling**

Danger symbols : F - Highly flammable; Xi - Irritant

**Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

**PLR-Thinner ACS-M**

Print date : 15.05.2009

Product code : 437001

Page 8 of 8



F - Highly flammable



Xi - Irritant

**R phrases**

- 11 Highly flammable.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

**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.
- 51 Use only in well-ventilated areas.

**EU regulatory information**

1999/13/EC (VOC) : 100 % (798 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.

**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.)*