

## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name : Chemlease® PMR EZ

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Release agent

#### 1.3 Details of the supplier of the safety data sheet

Chem-Trend (Deutschland) GmbH  
Ganghoferstr. 47  
D-82216 Maisach-Gernlinden  
Tel.: 0049 (0) 8142417-0  
Fax.: 0049 (0) 814215884

E-mail address : mcm@chemtrend.de  
Responsible/issuing person

National contact :

#### 1.4 Emergency telephone number

0049 (0) 8142417-1169

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

##### Classification (67/548/EEC, 1999/45/EC)

Highly flammable	R11: Highly flammable.
Harmful	R65: Harmful: may cause lung damage if swallowed.
Irritant	R38: Irritating to skin.
Dangerous for the environment	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R67: Vapours may cause drowsiness and dizziness.

#### 2.2 Label elements





## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:				
Signal word	:	Danger			
Hazard statements	:	H225 H304	Highly flammable liquid and vapour. May be fatal if swallowed and enters airways.		
		H315 H336 H411	Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.		
Precautionary statements	:	<b>Prevention:</b> P210  P240  P261 P271  P273 P280	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Avoid breathing mist or vapours. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.		
		<b>Response:</b> P301 + P330 + P331  P310  P302 + P352	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/ physician. IF ON SKIN: Wash with plenty of soap and water.		

Hazardous components which must be listed on the label:

	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
90622-57-4	Alkanes, C9-12-iso-

### 2.3 Other hazards

## 3. Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hydrocarbons, C7, n-		F; R11	Flam. Liq. 2; H225	>= 50 - < 70

## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

alkanes, isoalkanes, cyclics	927-510-4 / 01-2119475515-33-XXXX	Xi; R38 N; R51/53 Xn; R65 R67	Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	927-241-2 / 01-2119471843-32-XXXX	R10 Xn; R65 R66 R67 R52/53	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 10 - < 15
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	919-857-5 / 01-2119463258-33-XXXX	R10 Xn; R65 R66 R67	Flam. Liq. 3; H226 STOT SE 3; H336 Asp. Tox. 1; H304	>= 10 - < 15
Alkanes, C9-12-iso-	90622-57-4 292-459-0 /	R10 N; R51/53 Xn; R65 R66	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2.5 - < 10

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. First aid measures

### 4.1 Description of first aid measures

- If inhaled : Call a physician or poison control centre immediately.  
Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
In case of contact, immediately flush skin with plenty of water.  
Get medical attention if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
Seek medical advice.
- If swallowed : Move the victim to fresh air.  
: Rinse mouth with water.  
: If accidentally swallowed obtain immediate medical attention.

## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

If unconscious place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
Aspiration hazard if swallowed - can enter lungs and cause damage.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.  
Risks : None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

---

## 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Fire may cause evolution of:  
: Do not let product enter drains.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. In the case of respirable dust and/or fumes, use self-contained breathing apparatus. Exposure to decomposition products may be a hazard to health.  
Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool containers / tanks with water spray.

---

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas. Use personal protective equipment.

## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

Ensure adequate ventilation.  
Remove all sources of ignition.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Non-sparking tools should be used.

### 6.4 Reference to other sections

For personal protection see section 8.

---

## 7. Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Use only in an area containing explosion proof equipment.  
Do not use in areas without adequate ventilation.  
Do not breathe vapours/dust.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Keep away from fire, sparks and heated surfaces.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Ensure all equipment is electrically grounded before beginning transfer operations.  
Do not ingest.  
Do not use sparking tools.  
Do not enter areas where used or stored until adequately ventilated.  
Do not repack.  
Do not re-use empty containers.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Keep container closed when not in use.  
Avoid inhalation of vapour or mist.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.  
Keep container closed when not in use.

## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

Keep in a cool place away from oxidizing agents.  
Keep in a dry, cool and well-ventilated place.  
To maintain product quality, do not store in heat or direct sunlight.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Store in accordance with the particular national regulations.  
Keep in properly labelled containers.

### 7.3 Specific end use(s)

: Consult the technical guidelines for the use of this substance/mixture.

---

## 8. Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation.  
Handle only in a place equipped with local exhaust (or other appropriate exhaust).

#### Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection : Protective gloves  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.
- Eye protection : Safety glasses with side-shields conforming to EN166
- Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

#### Environmental exposure controls

General advice : Do not allow contact with soil, surface or ground water.

## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: colourless
Odour	: amine-like
Odour Threshold	: No data available
pH	: not applicable
Melting point/range	: No data available
Boiling point/boiling range	: 83 - 105 °C
Flash point	: -7 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Lower explosion limit	: 0.6 %(V)
Upper explosion limit	: 7.0 %(V)
Vapour pressure	: 60 hPa, 20 °C
Relative vapour density	: No data available
Density	: ca. 0.74 g/cm <sup>3</sup> , 20 °C
Water solubility	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Ignition temperature	: > 200 °C
Viscosity, dynamic	: No data available
Viscosity, kinematic	: < 7 mm <sup>2</sup> /s, 40 °C
Oxidizing properties	: No data available

### 9.2 Other information

Sublimation point	: No data available
Bulk density	: No data available

## 10. Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.  
Strong sunlight for prolonged periods.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : > 150°C small quantities of formaldehyde may be formed.

---

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Product

- Acute oral toxicity : Effects due to ingestion may include:  
: Central nervous system depression
- Acute inhalation toxicity : Respiration of solvent vapour may cause dizziness.  
: Dizziness, Drowsiness, Vomiting, Fatigue, Vertigo, Central nervous system depression, Inhalation may provoke the following symptoms:
- Acute dermal toxicity : Redness, Local irritation
- Skin corrosion/irritation : Irritating to skin.
- Serious eye damage/eye irritation : Contact with eyes may cause irritation.
- Respiratory or skin sensitisation : This information is not available.
- Germ cell mutagenicity
- Genotoxicity in vitro : No data available
- Genotoxicity in vivo : No data available
- Carcinogenicity : No data available
- Reproductive toxicity : No data available
- Teratogenicity : No data available
- Repeated dose toxicity : This information is not available.
- Aspiration toxicity : May be fatal if swallowed and enters airways.
- Further information : Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.



## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

### Components:

#### **Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics :**

- Acute oral toxicity : LD50 Oral: > 5,000 mg/kg, rat
- Skin corrosion/irritation : Result: Skin irritation
- STOT - single exposure : Assessment: May cause drowsiness or dizziness.
- Aspiration toxicity : May be fatal if swallowed and enters airways.

#### **Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics :**

- Acute oral toxicity : LD50 Oral: > 5,000 mg/kg, rat
- Skin corrosion/irritation : Result: Repeated exposure may cause skin dryness or cracking.
- Aspiration toxicity : May be fatal if swallowed and enters airways.

#### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics :**

- Acute oral toxicity : LD50 Oral: > 5,000 mg/kg, rat
- Skin corrosion/irritation : Result: Repeated exposure may cause skin dryness or cracking.
- STOT - single exposure : Assessment: May cause drowsiness or dizziness.
- Aspiration toxicity : May be fatal if swallowed and enters airways.

#### **Alkanes, C9-12-iso- :**

- Acute oral toxicity : LD50 Oral: > 5,000 mg/kg, rat
- Skin corrosion/irritation : Result: Repeated exposure may cause skin dryness or cracking.
- Aspiration toxicity : May be fatal if swallowed and enters airways.

---

## 12. Ecological information

### 12.1 Toxicity

#### Product:

- Toxicity to fish : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Toxicity to daphnia and other aquatic invertebrates : No data available
- Toxicity to algae : No data available
- Toxicity to bacteria : No data available

## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

### Components:

#### **Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics :**

##### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### **Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics :**

##### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

#### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics :**

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

#### **Alkanes, C9-12-iso- :**

##### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

### Product:

Biodegradability : No data available  
Physico-chemical removability : No data available

### Components:

#### **Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics :**

Biodegradability : Result: rapidly biodegradable

#### **Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics :**

Biodegradability : Result: rapidly biodegradable

#### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics :**

Biodegradability : Result: rapidly biodegradable

#### **Alkanes, C9-12-iso- :**

Biodegradability : Result: Readily biodegradable.

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

### Components:

#### **Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics :**

Bioaccumulation :  
No data available

#### **Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics :**

Bioaccumulation :  
No data available

#### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics :**

Bioaccumulation :  
not applicable

#### **Alkanes, C9-12-iso- :**

Bioaccumulation :  
No data available

### 12.4 Mobility in soil

#### Product:

Mobility : No data available  
Distribution among environmental compartments : No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

#### Product:

Additional ecological information : Toxic to aquatic life with long lasting effects.

---

## 13. Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
: Waste codes should be assigned by the user based on the application for which the product was used.  
Contaminated packaging : Empty containers can be landfilled, when in accordance with the local regulations.

---

## 14. Transport information

### 14.1 UN number

ADR : 1866  
IMDG : 1866  
IATA : 1866

## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

### 14.2 Proper shipping name

**ADR** : RESIN SOLUTION  
**IMDG** : RESIN SOLUTION (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)  
**IATA** : RESIN SOLUTION

### 14.3 Transport hazard class

**ADR** : 3  
**IMDG** : 3  
**IATA** : 3

### 14.4 Packing group

**ADR**  
Packaging group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)  
**IMDG**  
Packaging group : II  
Labels : 3  
EmS Number : F-E, S-E  
**IATA**  
Packing instruction (cargo aircraft) : 364  
Packaging group : II  
Labels : 3

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : yes  
**IMDG**  
Marine pollutant : yes  
**IATA**  
Environmentally hazardous : no

### 14.6 Special precautions for user

No data available

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

---

## 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).  
Major Accident Hazard Legislation : 96/82/EC Update: Dangerous for the environment 9b

## Chemlease® PMR EZ

Version 2.0

Revision Date 04.05.2015

Print Date 04.05.2015

Quantity 1: 200 t  
Quantity 2: 500 t

: 96/82/EC Update:  
Highly flammable  
7b  
Quantity 1: 5,000 t  
Quantity 2: 50,000 t

### 15.2 Chemical Safety Assessment

This information is not available.

## 16. Other information

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

R10	Flammable.
R11	Highly flammable.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful 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.

### Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

This safety datasheet applies only to products originally packaged and labelled by Chem-Trend Deutschland. The information contained therein is protected by copyright and must not be reproduced or amended without the express written approval of Chem-Trend Deutschland. This document may be passed on only to the extent required by law. Any dissemination of our safety datasheets (e.g. as a document for download from the Internet) beyond this legally required extent is not permitted without express written consent. Chem-Trend Deutschland provides its customers with amended safety datasheets as prescribed by law. The customer is responsible for passing on safety datasheets and any amendments contained therein to its own customers, employees and other users of the product. Chem-Trend Deutschland provides no guarantee that safety datasheets received by users from third parties are up-to-date. All information and instructions in this safety datasheets were compiled to the best of our knowledge and are based on the information available to us. The data provided are intended to describe the product in relation to the required safety measures; they are neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and do not justify any contractual legal relationships.