

Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

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

1.1 Product identifier

Product name : Chemlease® PMR-90 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.

Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

H225	Highly 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.

Precautionary statements :

Prevention:

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P261	Avoid breathing mist or vapours.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310	Immediately call a POISON CENTER/doctor.
P302 + P352	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
Alkanes, C9-12-iso-

90622-57-4

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture

Hazardous components

Chemical name	CAS-No. EC-No.	Classification (67/548/EEC)	Classification (REGULATION)	Concentration [%]
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - GB



Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

	Index-No. Registration number		(EC) No 1272/2008)	
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	927-510-4 / 01- 2119475515- 33-XXXX	F; R11 Xi; R38 N; R51/53 Xn; R65 R67	Flam. Liq. 2; H225 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 50 - < 70
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.

Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

- : Rinse mouth with water.
- : If accidentally swallowed obtain immediate medical attention. 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.

Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

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.
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 : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type A-P

Hand protection : Wear 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.
In case of contact through splashing:

: Nitrile rubber
Protective index Class 1

Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

- 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.
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 : 0.73 g/cm³, 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

Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

Ignition temperature	: > 200 °C
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: < 7 mm ² /s, 40 °C
Explosive properties	: Not explosive
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.

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

Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

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.

Components:

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

Acute oral toxicity	: LD50 Oral: > 5,000 mg/kg, Rat
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
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Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

- 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

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

Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

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 and toxic (PBT)., This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

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.

Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

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

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

Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

IMDG

Marine pollutant : yes

IATA

Environmentally hazardous : no

14.6 Special precautions for user

No special precautions required.

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

Remarks : Not applicable for product as supplied.

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
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.

Chemlease® PMR-90 EZ

Version 2.2

Revision Date 20.03.2017

Print Date 20.03.2017

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.

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