

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



78039 Wetting Agent PM - Pemulen®

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Revised edition: 25.08.2018

Version: 3

Printed: 30.11.2018

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Wetting Agent PM - Pemulen®

Article No.: 78039

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Personal care

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.de

E-Mail: info@kremer-pigmente.de

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

H412 Chronic aquatic toxicity, hazard category 3
Harmful to aquatic life with long lasting effects.
Cat.: 3

Classification according to Directive No. 67/548/EC or No. 1999/45/EC

R52 Harmful to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.

Safety Phrases:

Possible Environmental Effects:

2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

No classification required according to the CLP/GHS guidelines.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

H412 Harmful to aquatic life with long lasting effects.

Safety designation:

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Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Acrylic polymer for emulsification.

Information on Components / Hazardous Ingredients:

Cyclohexane (Xn,F,N; R11-38-50/53-65-67;
H304-315-336-400-410)

0.25 - 1.0 % CAS-Nr: 110-82-7
EINECS-Nr: 203-806-2
EC-Nr: 601-017-00-1

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Take affected persons out into the fresh air.

After inhalation:

Supply fresh air and keep patient calm.

Give artificial respiration in case breathing is not regular or if it has stopped.

After skin contact:

Wash with soap and rinse with plenty of water.

After eye contact:

Immediately flush eyes with plenty of 1% physiological saline for 5 minutes while holding eyelids open: see a physician.

Rinse open eyes with plenty of water for at least 15 minutes.

After ingestion:

Consult a doctor.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, extinguishing powder, water spray jet.

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Carbon dioxide may be ineffective on larger fires due to a lack of cooling capacity which may result in reignition.

Unsuitable extinguishing media:

None known.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

*In case of fire: formation of carbon oxides, toxic gases/vapors.
Product may cause an explosive mixture of organic dust and air.*

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Do not inhale dust.
Together with water product causes slippery surfaces.*

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

*Take up mechanically and collect in suitable containers for reuse or disposal. Avoid formation of dust.
Collect powder using a special dust vacuum cleaner with particle filter.*

6.4. Reference to other Sections

*Protective clothing, see Section 8.
See Section 13 for information on disposal.*

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

*Avoid contact with eyes and skin.
Avoid formation of dust. Do not inhale dust.
Wear adequate protective clothing (see para. 8).*

Hygienic measures:

Particular danger of slipping on leaked/spilled product.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a dry room.

Requirements for storage areas and containers:

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Keep container tightly closed.

Information on fire and explosion protection:

Eliminate ignition sources (e.g. sparks, static build-up, excessive heat, etc.). Bond, ground and properly vent conveyers, dust control devices and other transfer equipment.

Avoid flow of polymer, powder or dust through non-conductive dusts, vacuum hoses or pipes, etc.; only use grounded, electrically conductive transfer lines when pneumatically conveying product.

Avoid accumulation of dust.

ST1 Capable of dust explosion

Storage class (VCI):

11; Combustible solids

Further Information:

Maximum storage temperature: < 80°C

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

Cyclohexane, CAS 110-82-7: ELV (TRGS 900): 700 mg/m³; 200 ppm (4)

TWA-Value: 0.05 mg/m³ (8h exposure limit) recommended for the polymer in this product.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

Biological limit value (TRGS 903):

Cyclohexane (110-82-7): 150 mg/g creatinine (end of exposure or shift; urine)

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation in case of dust formation.

Personal Protection

General protective measures:

Avoid contact with eyes and skin.

Keep away from foodstuffs, beverages and feed.

Do not inhale vapor/dust.

Respiratory protection:

Required in case of insufficient ventilation (EN 143 or 149).

Hand protection:

Protective gloves (EN 388).

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Protective glove material:

Eye protection:

Body protection:

Protective clothing.

Environmental precautions:

Prevent from getting into the soil, surface water and sewage system.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>powder</i>
<i>Color:</i>	<i>white</i>
<i>Odor:</i>	<i>slight vinegarlike odor</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>2.5 - 3.0 (1% in H₂O)</i>
<i>Melting temperature:</i>	<i>not available</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>not available</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>ca. 1.4 g/cm³ (20°C)</i>
<i>Solubility in water:</i>	<i>will swell in water</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>ca. 480°C</i>

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Decomposition temperature:

No data available.

Viscosity, dynamic:

not available

Explosive properties:

Risk of dust explosion.

Oxidizing properties:

no information available

Bulk density:

< 0.24 g/ml (25°C)

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

100 %

Particle size:

Other information:

Dust explosion limit, lower: 80 g/m³

Dust explosion number: 157 - 193 m.b./s

Minimum ignition energy: 25 - 50 mJ

Minimal ignition temperature: ca. 480°C

Maximal rate of pressure rise: 786 bar/s (500 g/m³)

Maximum explosion pressure: 6 bar (500 g/cm³)

Volume resistance: 1.04x 10⁺ 16 ohm-cm

10. Stability and Reactivity

10.1. Reactivity

No information available.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

None if handled and stored according to specifications.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid humidity.

Avoid contact with heat and static discharge.

Thermal decomposition:

10.5. Incompatible Materials

Alkalis, strong bases.

10.6. Hazardous Decomposition Products

In case of fire: formation of carbon oxides and other toxic gases and vapors.

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10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

No information available.

LD50, dermal:

No information available.

LC50, inhalation:

Avoid inhalation of dust.

Animal studies indicate the inhalation of respirable polyacrylate dust may cause inflammatory changes in the lung. Persons with sensitive airways (e.g. asthmatics) may react to vapors.

Symptoms: coughing, mucous formation and breathlessness.

Primary effects

Irritant effect on skin:

Non irritating (rabbit)

Pre-existing skin conditions may be aggravated by prolonged or repeated exposure. Contact dermatitis may occur in sensitive individuals under extreme and unusual conditions of prolonged and repeated contact, such as high exposure accompanied by elevated temperature and occlusion by clothing. This effect may be the result of the product's hygroscopic properties, abrasion or pH.

Irritant effect on eyes:

Non-irritating to eyes (rabbit)

Product dust may cause irritation and smarting.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

Cyclohexane: No mutagenic or genotoxic effects observed in animal tests.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Repeated exposure: A two-year inhalation study in rats exposed to

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a respirable, water-absorbent sodium polyacrylate dust resulted in lung effects such as inflammation, hyperplasia, and tumors. There were no observed adverse effects at exposures of 0.05 mg/m³. In addition, long-term medical monitoring of potentially exposed workers has not revealed lung effects such as those observed in the rat. However, the inhalation of respirable dusts should be avoided by implementing respiratory protection measures and o

Additional toxicological information:

Cyclodextrane: The product can be aspirated into the lungs during swallowing or vomiting. This could result in severe injury to the lungs and death.

This product readily absorbs moisture and may become thick and gelatinous upon contact with the mucous membrane of the eye, or upon inhalation into the nasal passages.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

Cyclohexane: LC50: 4.5 mg/l l (96h; Pimephales promelas)

Daphnia toxicity:

Cyclohexane: EC50: 0.9 mg/l (24h, Daphnia magna)

Bacteria toxicity:

no information available

Algae toxicity:

Cyclohexane: EC50: 9.317 mg/l (72h, Scenedesmus quadricauda)

12.2. Persistency and Degradability

Cyclohexane: Oxygen deficiency: 77 % (28d, OECD 301F)

12.3. Bioaccumulation

Cyclohexane: logKOW 3.44

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

No data available.

12.6. Other Adverse Effects

Water hazard class:

1, slightly hazardous

Behaviour in sewage systems:

Further ecological effects:

Organic carbon (TOC): 9 % (28d)

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

In accordance with current regulations, product may be taken to a waste disposal site or incineration plant, after consultation with site

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operator and/or with the responsible authority.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

None

14.6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

14.8. Further Information

15. Regulatory Information

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15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

1, slightly hazardous for water (German Regulation)

Local regulations on chemical accidents:

Seveso III (96/82/EG): Ethyl acetate (215-500-4): 0.1 - 1.0 %

Seveso III (96/82/EG): Cyclohexane (203-806-2): 0.1 - 1.0 %

Employment restrictions:

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Ethyl acetate (205-500-4): 0.1 - 1.0 %; Cyclohexane (203-806-2): 0.1 - 1.0 %

The label on the packaging must be visible, legible and indelible:

This product is not to be used under conditions of poor ventilation.

This product is not to be used for carpet laying.

Technical instructions on air quality:

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

15.3. Further Information

Listed in the following inventories:

EINECS (203-806-2), TSCA (USA), AICS (AUS), DSL/NDL (CA), ENCS (JP), ECL (KR), IECSC (CN), PICCS (PH), NZIoC (NZ), TCSCA (TW), SWISS (CH)

Regulation (EC) 2037/2000 - Substances that Deplete the Ozone Layer: not regulated / not applicable

Regulation (EC) 850/2004 - Persistent organic pollutants and amending Directive 79/117/EEC: not regulated / not applicable

Regulation (EC) 689/2008 concerning the export and import of dangerous chemicals: not regulated / not applicable

EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.