

Safety Data Sheet

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



78039 Wetting Agent PM - Pemulen®

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Revised edition: 09.07.2024

Version: 5.1

Printed: 18.11.2024

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

1.1. Product Identifier

Product Name: Wetting Agent PM - Pemulen®

Article No.: 78039

UFI: --

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.com

EMail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

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

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

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

H412

Cat.: 3

Hazardous to the aquatic environment, hazard category 2

Harmful to aquatic life with long lasting effects.

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:

P501

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

Hazardous components for labelling:

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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 (H225-304-315-336-400-410); REACH Reg. No. 01-2119463273-41	0.25 - 1.0 %	CAS-Nr: 110-82-7 EINECS-Nr: 203-806-2 EC-Nr: 601-017-00-1
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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.

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

Unsuitable extinguishing media:

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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:

*Avoid inhalation of 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:

Keep container tightly closed.

Information on fire and explosion protection:

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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:

11; Combustible solids (TRGS 510)

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):

Cyclohexane:

700 mg/m³ (worker, inhalation, long-term exposition - systemic and local effects)

1400 mg/m³ (worker, inhalation, short-term exposition - systemic and local effects)

412 mg/m³ (consumer, inhalation, short-term exposition - systemic and local effects)

206 mg/m³ (consumer, inhalation, long-term exposition - systemic and local effects)

59.4 mg/kg (consumer, swallowing, long-term exposition - systemic effects)

1186 mg/kg (consumer, skin contact, long-term exposition - systemic effects)

2016 mg/kg bw/d (worker, skin contact, long-term exposition - systemic effects)

PNEC (Predicted No-Effect Concentration):

Cyclohexane:

Fresh water / Sea water: 0.207 mg/l

Fresh water sediment / Sea water sediment: 16.68 mg/kg

Sewage treatment system (STP): 3.24 mg/l

Soil: 3.38 mg/kg

Additional Information:

Biological limit value (TRGS 903):

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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).

Protective glove material:

Recommended: Protective index 5, corresponding > 240 min. of permeation time (EN 374).

Eye protection:

Tightly fitting safety goggles (EN 166).

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

Form: powder

Color: white

Odor: slight vinegarlike odor

Odor threshold:
no information available

pH-Value: 2.5 - 3.0 (1% in H₂O)

Melting temperature:
not available

Boiling temperature:
not applicable

Flash point:
not applicable

Evaporation rate:
No information available.

Flammability (solid, gas):

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not available

Upper explosion limit:

no information available

Lower explosion limit:

no information available

Vapor pressure:

not applicable

Vapor density:

No information available.

Density:

ca. 1.4 g/cm³ (20°C)

Solubility in water:

Swells in cold water

Coefficient of variation (n-Octanol/Water):

no information available

Auto-ignition temperature:

ca. 480°C

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

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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 the event of fire or thermal decomposition: formation of carbon oxides and other toxic gases and vapors.

10.7. Further Information

11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

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.

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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 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

Aspiration hazard:

11.2. Information on other Hazards

Endocrine Disrupting Properties:

This substance/mixture does not contain any components with endocrine disrupting properties in a percentage of 0.1 or greater, according to Article 57(f) of the REACH Regulation (EC) No. 1907/2006 or the Delegated Regulation (EC) 2017/2100 or the Delegated Regulation (EC) 2018/605.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

Cyclohexane: LC50: 4.5 mg/l l (96h; *Pimephales promelas*); EL50: 2.3 mg/l (72h; fish)

Daphnia toxicity:

Cyclohexane: EC50: 0.9 mg/l (48h, *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 consumption: 77 % (28d, ECHA)

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12.3. Bioaccumulation

Cyclohexane: log KOW 3.44 (pH 7, 25°C); BCF: 167

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

No data available.

12.6. Endocrine Disrupting Properties

This substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) No. 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

12.7. Other Adverse Effects

Water hazard class:

1, slightly hazardous

Behaviour in sewage systems:

Further ecological effects:

*May cause long-term adverse effects in the aquatic environment.
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 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 / DOT (US) (land transportation).

IMDG/IATA:

Not hazardous goods

14.3. Transport Hazard Classes

ADR Class:

not applicable

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Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

not applicable

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. Maritime Transport in Bulk according to IMO Instruments

not applicable

14.8. Further Information

15. Regulatory Information

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 visible, legible and indelible:

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

This product must not be used for laying carpets.

Technical instructions on air quality:

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this

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product.

15.3. Further Information

Listed in the following inventories:

*REACH (EU), UK REACH (GB), TSCA (US), AIIC (AUS),
DSL/NDSL (CA), PICCS (PH), ECL (KR), ENCS (JP), IECSC
(CN), SWISS (CH), NZIoC (NZ); TCSCA (TW), KKDIK (TR)*

*Regulation (EC) 1005/2009 - Substances that Deplete the Ozone
Layer: not regulated / not applicable*

*Regulation (EU) 2019/1021 - Persistent organic pollutants: not
regulated / not applicable*

*Regulation (EC) 649/2012 concerning the export and import of
dangerous chemicals: 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.*