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

Product Identifier

Product Name: Kremer Oil Paint Medium, fast drying
Article No.: 79200

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

Identified uses: Restoration purposes
Uses advised against:

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
EMail: info@kremer-pigmente.de
Importer: --

Emergency No.

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

Hazards Identification

Classification of the Substance or Mixture

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

- Flammable liquids, hazard category 1
- Skin irritation, hazard category 2
- Skin sensitization, hazard category 1
- Serious eye damage, hazard category 2
- Hazardous to the aquatic environment, acute category 3

H225
Cat.: 2
Highly flammable liquid and vapour.

H315
Cat.: 2
Causes skin irritation.

H317
Cat.: 1
May cause an allergic skin reaction.

H319
Cat.: 2
Causes serious eye irritation.

H412
Cat.: 3
Harmful to aquatic life with long lasting effects.

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

Flammable (F) R11 Highly flammable
Hazardous to the environment (N) R51 Toxic to aquatic organisms.
Harmful (Xn) R53 May cause long-term adverse effects in the aquatic environment.
R65 Harmful: May cause lung damage if swallowed.
Safety Data Sheet
According to regulation (EC) No. 1907/2006 (REACH)

79200  Kremer Oil Paint Medium, fast drying

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Printed: 16.10.2018

Safety Phrases:

Possible Environmental Effects:

2. 2.  Label Elements

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

Hazard designation:

GHS02-2

GHS07

Signal word:

Danger

Hazard designation:

H225  Highly flammable liquid and vapour.
H315  Causes skin irritation.
H317  May cause an allergic skin reaction.
H319  Causes serious eye irritation.
H412  Harmful to aquatic life with long lasting effects.

Safety designation:

P210  Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233  Keep container tightly closed.
P243  Take precautionary measures against static discharge.
P273  Avoid release to the environment.
P280  Wear protective gloves/ clothing/ eye/ face protection.

Hazardous components for labelling:

2. 3.  Other Hazards

3.  Composition/Information on Ingredients

3. 1.  Substance

3. 2.  Mixture

Chemical Characterization:

Information on Components / Hazardous Ingredients:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
<th>CAS-Nr</th>
<th>EINECS-Nr</th>
<th>EC-Nr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Siccative, extra (R43-51-53-66; H317-361-411)</td>
<td>&lt; 2 %</td>
<td>CAS-Nr:</td>
<td>EINECS-Nr:</td>
<td>EC-Nr:</td>
</tr>
</tbody>
</table>

Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes,
4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

First aiders have to protect themselves.
Take person away from hazardous area.
Remove contaminated clothes immediately.

After inhalation:

Supply fresh air. If required give artificial respiration. Keep patient warm.
Oxygen therapy in case of impaired breathing.
In case of unconsciousness place patient stable in side position for transportation.

After skin contact:

Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.
If irritation continues consult a physician.

After eye contact:

Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.

After ingestion:

Rinse mouth thoroughly with plenty of water. Do not induce vomiting. Consult physician immediately.
Risk of aspiration!
In case of spontaneous vomiting, bring unconsciousness person in a stable side position.

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

Symptoms:

Headache, dizziness, nausea, tiredness, numbness, cramps, weakness, itchiness, reddened skin, disorder of the central nervous system.

Effects:

If vomiting occurs after ingestion, aspiration into the lungs can occur. Aspiration can cause pulmonary edema and pneumonia.

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:

Water mist, extinguishing powder, foam, carbon dioxide.
Unsuitable extinguishing media: Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:
- Flammable liquid.
- Product floats on water surface and does not dissolve.
- The vapor is heavier than air, spreads along the ground and distant ignition is possible.
- In case of fire: formation of carbon oxides.

5.3. Advice for Firefighters

Protective equipment:
- Wear self-contained respiratory protective device and full protective gear.

Further information:
- Cool exposed containers with water mist.
- Risk of bursting of closed containers due to strong heating.
- Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:
- Wear appropriate protective equipment. Keep spectators away.
- Provide adequate ventilation. Keep away from sources of ignition.
- Avoid contact with eyes and skin.
- Do not inhale aerosol/fumes/vapors.

6.2. Environmental Precautions

Environmental precautions:
- Prevent contamination of soils, drains and surface water.
- Contact local authorities if product pollutes soil or vegetation.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:
- Contain with absorbent material (sand, diatomaceous earth, acid binder, universal absorbent) and dispose accordingly.
- Dispose of contaminated material as waste according to section 13.

6.4. Reference to other Sections

Protective clothing, see Section 8.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:
- Provide good ventilation and/or exhaust at the workplace. Ensure adequate ventilation. Handle and open container with care.
- Do not breathe vapors, aerosols.
- Avoid contact with eyes and skin.
Hygienic measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a cool and well ventilated location.

Requirements for storage areas and containers:

Store in a room with a solvent-proof floor.

Information on fire and explosion protection:

Do not store together with: oxidants. Combustible liquid. Vapors may form an explosive mixture with air. Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.

Storage class (VCI):

3: Flammable liquids

Further Information:

The product is slightly hazardous to water. Consider national regulations regarding handling and storage.

7.3. Specific End Use(s)

Further information:

No information available.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900
C7-C9 Aliphatics: TWA 1500 mg/m3; 2(II)
Hydrocarbon mixture, used as solvent (free from additives).
Turpentine oil (CAS 8006-64-2): TWA: 8.2 mg/m3, 2 ppm (long-term value); 16.4 mg/m3, 4 ppm (short-term value)
2-Butanonoxime (CAS 96-29-7); TLV: 1 mg/m3, 0.3 ppm (long-term value); 8 mg/m3, 2.4 ppm (short-term value)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclenes:
773 mg/m3 bw/d (worker, skin contact, long-term exposition - systemic effects)
2035 mg/m3 (worker, inhalation, long-term exposition - systemic effects)
699 mg/kg bw/d (consumer, skin contact, long-term exposition - systemic effects)
608 mg/kg (consumer, inhalation, long-term exposition - systemic effects)
699 mg/kg bw/d (consumer, skin contact, long-term exposition - systemic effects)
Turpentine oil:
161 µg/cm² (worker, skin contact, short-term exposition)
5.98 mg/m³ (worker, inhalation, long-term exposition)
81 µg/cm² (consumer, skin contact, short-term exposition)
0.31 mg/kg bw/d (consumer, swallowing, long-term exposition)
1.06 mg/m³ (consumer, inhalation, long-term exposition)

Predicted No-Effect Concentration (PNEC):

Turpentine oil (CAS 8006-64-2):
Fresh water: 8.8 µg/l
Sea water: 0.88 µg/l
Fresh water sediment: 2.27 mg/kg dw
Sea water sediment: 0.227 mg/kg dw
Sewage treatment system (STP): 6.6 mg/l
Soil: 0.45 mg/kg
Oral (secondary poisoning): 1.35 mg/kg (feed)

Additional Information:

8.2. Exposure Controls
Technical protective measures: No further measures, see Section 7 and 8.

Personal Protection
General protective measures: Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

Respiratory protection: Respiratory equipment required in case of insufficient ventilation, filter type A-P2.
Respirator mask required if ventilation is insufficient. Wear filter respirator in case of short-term or low exposure, and wear a self-contained breathing apparatus in case of long-term or higher exposure.

Hand protection: Protective gloves. The glove material has to be impermeable and resistant to the product / substance / preparation.

Protective glove material: Fluoro carbon rubber, nitrile rubber.

Eye protection: Tightly fitting safety goggles (EN 166).

Body protection: Protective clothing (flame-proof, antistatic).

Environmental precautions: Prevent contamination of open water ways and sewage system.
9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: liquid
Color: colorless
Odor: gasoline-like
Odor threshold: No information available.

pH-Value: not applicable

Melting temperature: not available
Boiling temperature: not available
Flash point: < 10°C
Evaporation rate: No information available.

Flammability (solid, gas): not applicable
Upper explosion limit: no information available
Lower explosion limit: no information available
Vapor pressure: no information available
Vapor density: not applicable

Density:
Solubility in water: insoluble
Coefficient of variation (n-Octanol/Water): no information available
Auto-ignition temperature: No information available.

Decomposition temperature: No data available.
Viscosity, dynamic: not determined
Explosive properties: Product is not explosive; however, an explosive vapor/air mixture
Oxidizing properties: none

Bulk density: not applicable

9.2. Further Information

Solubility in solvents:
Viscosity, kinematic
Burning class:
Solvent content:
Solid content:
Particle size:
Other information:

10. Stability and Reactivity

10.1. Reactivity
No decomposition if used according to specifications.

10.2. Chemical Stability
Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions
Formation of explosive vapor-air-mixtures possible.

10.4. Conditions to Avoid

Conditions to avoid:
Avoid contact with heat, sparks and open fire.

Thermal decomposition:
No further information available.

10.5. Incompatible Materials

Strong oxidizing agents.

10.6. Hazardous Decomposition Products

In case of fire: formation of carbon oxides.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity
LD50, oral:
Hydrocarbons,C7-C9, n-Alkanes, Isoalkanes, Cyclenes: > 5000 mg/kg (rat; OECD 401)
Turpentine oil: 3956 mg/kg (rat)

LD50, dermal:
Hydrocarbons,C7-C9, n-Alkanes, Isoalkanes, Cyclenes: > 2800 mg/kg (rabbit; OECD 402)
Turpentine oil: > 2000 mg/kg (rabbit)
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LC50, inhalation:

Hydrocarbons, C7, n-Alkanes, Isoalkanes, Cyclenes: > 23.3 mg/kg (4h, rat; OECD 403)
Turpentine oil: 13.7 mg/l (4h, rat; OECD 403); 29 mg/l (2h, mouse; OECD 403)

Primary effects

Irritant effect on skin:
Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclenes: slight irritant effect
Turpentine oil: irritating (rabbit)

Irritant effect on eyes:
Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclenes: non irritating
Turpentine oil: irritating (rabbit)

Inhalation:
No information available.

Ingestion:
No information available

Sensitization:
Turpentine oil: May cause an allergic skin reaction.

Mutagenicity:
No relevant data found.

Reproductive toxicity:
No relevant data found.

Carcinogenicity:
No relevant data found.

Teratogenicity:
No information available.

Specific target organ toxicity (STOT):
Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclenes:
Single exposure: may cause drowsiness or dizziness.
Repeated exposure: the substance or mixture is not classified as specific target organ toxicant.

Additional toxicological information:
Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclenes:
Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis. Product is irritating, respectively, caustic for the respiratory tract.
Turpentine oil:
Aspiration toxicity: may be fatal if swallowed and enters airways.
May cause an allergic skin reaction.

12. Ecological Information

12.1 Aquatic Toxicity

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

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Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes, Cyclenes:
- LL50: > 13.4 mg/l (96h, Oncorhynchus mykiss)
- EL50: > 3 mg/l (48h, Daphnia magna)
- EC50: 14.1 mg/l (3h, aquatic microorganisms; OECD 209)

Daphnia toxicity:
Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes, Cyclenes: EL50: 3 mg/l
Turpentine oil: EC50: 14.1 mg/l

Bacteria toxicity:
Turpentine oil: EC50: 736 mg/l

Algae toxicity:
Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes, Cyclenes: EL50: 10-30 mg/l (72h, Pseudokirchneriella subcapitata)
NOELR: 10 mg/l (72h, Pseudokirchneriella subcapitata)

Turpentine oil: EC50: > 80 % (28d); Readily biodegradable (OECD 301E)

12.2. Persistency and Degradability
Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes, Cyclenes:
- Readily biodegradable.
- The product floats on the water surface and does not dissolve.
- Oxidizes rapidly by photo-chemical reactions in air.
- The product evaporates easily from water surface.
- Turpentine oil: > 80 % (28d); Readily biodegradable (OECD 301E)

12.3. Bioaccumulation
Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes, Cyclenes:
- Turpentine oil: An appreciate bioaccumulation potential is to be expected (log P(o/w) > 3).

12.4. Mobility
Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes, Cyclenes:
- Product is readily volatile.

12.5. Results of PBT- und vPvP Assessment
This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).

12.6. Other Adverse Effects
Water hazard class:
- Do not let product contaminate ground water, waterways or sewage system.

Behaviour in sewage systems:
Further ecological effects:
- May cause long-term adverse effects in the aquatic environment.

AOX Value:

13. Disposal Considerations
13.1. Waste Treatment Methods
Product:
- Must not be disposed together with household garbage.
- Do not let product enter water systems.
- Dispose of according to official national and local regulations.
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European Waste Code (EWC):

Uncleaned packaging:
Empty container completely. Residues may cause an explosion hazard.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste Code No.:

14. Transport Information

14.1. UN Number
ADR, IMDG, IATA 1263

14.2. UN Proper Shipping Name
ADR/RID: FARBE
IMDG/IATA: PAINT

14.3. Transport Hazard Classes
ADR Class: 3
Hazard no.: 3
Classification code: F1
Tunnel restriction code: D/E
IMDG Class (sea): 3
Hazard no.: 3
EmS No.: F-E, S-E
IATA Class: 3
Hazard no.: 3

14.4. Packaging Group
ADR/RID: II
IMDG: II
IATA: II

14.5. Environmental Hazards
Labelling according 5.2.1.6.3 IMDG: fish and tree
Labelling according 5.2.1.8 ADR/RID: fish and tree
Classification as environmentally hazardous according 2.9.3 IMDG: yes
Labelled with "P" according 2.10 IMDG: yes

14.6. Special Precautions for User
not applicable

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

2, hazardous for water (German Regulation)

Local regulations on chemical accidents:

Employment restrictions:

The employment restrictions for young workers in accordance with the Youth Employment Protection Law (§ 22 JArbSchG) are to be observed.

The employment restrictions for women in child-bearing age are to be observed (§§4 und 5 MuSchRiV).

Restriction and prohibition of application:

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for the component substances contained in this product.

15. 3. Further Information

VOC Content: 54 %

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.