

Safety Data Sheet

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



27000 Kremer Color Paste - Titanium White

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Revised edition: 23.05.2018

Version: 1.1

Printed: 04.12.2018

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

1.1. Product Identifier

Product Name: Kremer Color Paste - Titanium White

Article No.: 27000

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

Identified uses:

Coloring agent for industrial purposes

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)

This product does not require classification and labelling as hazardous according to CLP/GHS.

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

The material is not subject to classification according to EC lists.

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:

Safety designation:

Hazardous components for labelling:

2.3. Other Hazards

Contains a mixture of 5-Chloro-2-methylisothiazolin-3(2H)-one and next page: 2

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2-Methylisothiazol-3(2H)-one (3:1), 2-Methylisothiazolin-3(2H)-one: can cause allergic reactions.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Titanium dioxide pigment suspension. Contains PW 6, C.I. 77891.

Information on Components / Hazardous Ingredients:

Butanedioic acid, (dimethylphosphinyl)-, dimethyl ester, reaction products with lauryl alcohol and polyethylene glycol (H314-318-412)	2.5 - 3 %	CAS-Nr: 121375-86-8 EINECS-Nr: EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Do not leave affected persons unattended.

After inhalation:

Supply fresh air. Consult physician if symptoms persist.

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

In case of unconsciousness place patient stable in side position for transportation.

After skin contact:

Wash with soap and rinse with plenty of water.

Remove contaminated clothing and shoes.

In case of skin irritation consult physician.

Wash contaminated clothing before reuse.

Clean contaminated shoes before reuse.

After eye contact:

Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Should irritation continue, seek medical advice.

After ingestion:

Rinse mouth thoroughly with plenty of water. Do not induce vomiting. Consult physician immediately.

Drink water in small sips.

Never give anything by mouth to an unconscious person.

In case of unconsciousness, store, respectively transport in stable side position.

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

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Treatment:

No further information available.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, water spray.

Unsuitable extinguishing media:

None known.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: formation of carbon monoxide and carbon dioxide, metal oxides, oxides.

In case of fire: formation of nitrogen oxides.

5.3. Advice for Firefighters

Protective equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear appropriate protective equipment. Keep spectators away. Floor may be slippery; use care to avoid falling.

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:

Take up mechanically and collect in suitable containers for disposal.

6.4. Reference to other Sections

Protective clothing, see Section 8.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Wear adequate protective clothing (see para. 8). The usual precautionary measures are to be adhered to when handling chemicals. Avoid contact with eyes, skin and clothing.

Hygienic measures:

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Do not inhale gas/fumes/vapours/aerosols.

Wash hands at the end of work. Preventive skin protection recommended.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store the product in the original tightly sealed containers in a dry and cool place.

Protect product from direct sunlight.

Requirements for storage areas and containers:

Store in containers which correspond to the original packaging. Store in correctly labelled containers.

Information on fire and explosion protection:

Do not store together with: foodstuffs and animal feed.

Storage class (VCI):

10; Combustible liquids

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

Titanium dioxide (CAS 13463-67-7): TLV (TRGS 900): 1.25 mg/m³ (8h, airborne dust), 10 mg/m³ (8h, inhalable dust); 2(II)

Polyethylene glycol (CAS 25322-68-3): 1000 mg/m³ (8h, average value); 8000 mg/m³ (15 min; Short Term Exposure Limit)

Aluminium oxide (CAS 1344-28-1): AGW (TRGS 900): 1.25 mg/m³ (airborne dust), 10 mg/m³ (inhalable dust); 2(II)

Silicon dioxide, CAS 112926-00-8 (7631-86-9), TWA-Value: 4 mg/m³ (inhalable dust fraction)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Titanium dioxide:

10 mg/m³ (worker, inhalation, long-term exposition - local effects)

700 mg/m³ bw/d (consumer, swallowing, short-term exposition - local effects)

Silicium dioxide: 4 mg/m³ (worker, inhalation, long-term exposition - systemic)

Predicted No-Effect Concentration (PNEC):

Titanium dioxide:

Fresh water: 0.184 mg/l

Sea water: 0.0184 mg/l

Fresh water sediment: 1000 mg/l

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Seawater sediment: 100 mg/kg
Soil: 100 mg/kg
Sewage treatment system (STP): 100 mg/l
Intermittent release: 0.61 mg/l

Additional Information:

8.2. Exposure Controls

Technical protective measures:

No further measures, see Section 7.
Ensure adequate ventilation, especially in confined areas.

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.
Wash contaminated clothes before reuse.

Respiratory protection:

In case of formation of dust/vapor.
Recommended: respiratory mask with an ABEK-filter.

Hand protection:

Protective gloves

Protective glove material:

For short-term exposure:
Nitrile rubber (NBR), chloroprene rubber (CR), polyvinyl chloride (PVC).

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: liquid
Color: white
Odor: weak, characteristic
Odor threshold: No information available.
pH-Value: 6 - 8 (100 g/l H₂O)
Melting temperature: not determined
Boiling temperature: > 100°C (1013 hPa)
Flash point: >100°C (>212°F); 1013 hPa

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Evaporation rate:

not applicable

Flammability (solid, gas):

not applicable

Upper explosion limit:

no information available

Lower explosion limit:

Vapor pressure:

not determined

Vapor density:

No information available.

Density:

2 - 2.2 g/cm³ (20°C)

Solubility in water:

miscible

*Coefficient of variation (n-
Octanol/Water):*

not determined

Auto-ignition temperature:

not applicable

Decomposition temperature:

No data available.

Viscosity, dynamic:

3000 - 5000 mPas

Explosive properties:

not available

Oxidizing properties:

No information available.

Bulk density:

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

No information available.

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10.2. Chemical Stability

The product is stable.

10.3. Possibility of Hazardous Reactions

None if handled and stored according to specifications.

10.4. Conditions to Avoid

Conditions to avoid:

No information available.

Thermal decomposition:

10.5. Incompatible Materials

No information available.

10.6. Hazardous Decomposition Products

None if stored and handled according to specifications.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

Butanedoic acid, (dimethylphosphinyl)-, dimethyl ester, reaction products with lauryl alcohol and polyethylene glycol: LD50: > 2000 mg/kg (rat)

LD50, dermal:

No information available.

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

No irritant effect known.

Butanedoic acid, (dimethylphosphinyl)-, dimethyl ester, reaction products with lauryl alcohol and polyethylene glycol: Causes chemical burns.

Irritant effect on eyes:

No irritant effect known.

Butanedoic acid, (dimethylphosphinyl)-, dimethyl ester, reaction products with lauryl alcohol and polyethylene glycol: Strong corrosive effect.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No relevant data found.

Mutagenicity:

Butanedoic acid, (dimethylphosphinyl)-, dimethyl ester, reaction

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products with lauryl alcohol and polyethylene glycol:
In vitro genetic-toxicity: micronucleus negative (OECD 487)
In vitro genetic-toxicity: Ames-Test negative (OECD 471)

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No relevant data found.

Additional toxicological information:

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

Butanedoic acid, (dimethylphosphinyl)-, dimethyl ester, reaction products with lauryl alcohol and polyethylene glycol: LC50: 17.8 mg/l (96h, Danio rerio)

Daphnia toxicity:

No information available.

Bacteria toxicity:

Butanedoic acid, (dimethylphosphinyl)-, dimethyl ester, reaction products with lauryl alcohol and polyethylene glycol: EC50: > 10000 mg/l (3h, active sludge; OECD 209)

Algae toxicity:

No information available.

12.2. Persistency and Degradability

Butanedoic acid, (dimethylphosphinyl)-, dimethyl ester, reaction products with lauryl alcohol and polyethylene glycol: 24 %, not readily biodegradable (28d; OECD 301D)

12.3. Bioaccumulation

No information available.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.

12.6. Other Adverse Effects

Water hazard class:

1, slightly hazardous

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

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13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

In accordance with current regulations, product may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

European Waste Code (EWC):

Uncleaned packaging:

Packaging may be disposed of in the same manner as the product.

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

Not classified as environmentally hazardous.

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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

Do not store together with foodstuffs.

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 (according to the German Regulation AwSV using the mixing rule)

Local regulations on chemical accidents:

Seveso III Directive: not applicable under Directive 2012/18/EC.

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: not applicable

Chemical Weapons Convention (CWC), Lists of toxic chemicals and raw materials: not forbidden and/or restricted

Technical instructions on air quality:

15.2. Chemical Safety Assessment

A Chemical Safety Assessment is not necessary for this product.

15.3. Further Information

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

Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: 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.