

Material Safety Data Sheet

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



46100 Lithopone

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Revised edition: 20.08.2014

Version: 2

Printed: 26.08.2014

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

1.1. Product Identifier

Product Name: Lithopone

Article No.: 46100

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

Identified uses:

Chemical for different applications.

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet

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

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 EC Regulation 1272/2008

This product is not classified as hazardous according to the CLP/GHS Directive.

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

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

Safety Phrases:

Possible Environmental Effects:

2.2. Label Elements

Classification according to EC Regulation 1272/2008

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

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

2.3. Other Hazards

Composition/Information on Ingredients

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3.1. Substance

3.2. Mixture

Chemical Characterization:

Artificial mineral pigment, co-precipitate of zinc sulphide and barium sulphate, Pigment White 5, C.I. 77115
Zinc sulphide (CAS No. 1314-98-3, EINECS 215-251-3; REACH-Reg. No. 01-2119475779-15-xxxx): 60 %
Barium sulphate (CAS No. 7727-43-7): 40 %

Hazardous Ingredients:

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Remove contaminated clothes.

After inhalation:

Supply fresh air. Consult physician if symptoms persist.

After skin contact:

Wash off with plenty of water and soap.
If irritation continues consult a physician.

After eye contact:

Rinse open eyes with plenty of water for at least 15 minutes.
Seek medical attention if irritation persists.

After ingestion:

Rinse mouth with water and drink plenty of water.

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:

No further information available.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

CO₂, extinguishing powder, water jet.
Fight larger fire with water jet or alcohol resistant foam.

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: formation of sulfur oxides.

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When heated or in case of fire: formation of hazard fumes possible.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

Contaminated extinguishing water and debris should be disposed of according to local regulations.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Wear appropriate protective equipment. Keep spectators away.
Do not inhale dust. Avoid formation of dust.
Avoid contact with eyes.*

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 disposal.

6.4. Reference to other Sections

*For information for safe handling see Section 7.
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:

*Provide adequate ventilation.
Avoid formation of dust. Do not inhale dust.*

Hygienic measures:

Avoid contact with skin, eyes and clothing. Do not inhale dust.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in closed container and keep product dry.

Requirements for storage areas and containers:

Water law provisions have to be met.

Information on fire and explosion protection:

*No special measures necessary.
Do not store together with: foodstuffs and animal feed.*

Storage class (VCI):

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Further Information:

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):

TLV: 10 mg/m³ inhalable fraction (general dust limit)

TLV: 3 mg/m³ (8h) airborne fraction (average value).

Zinc sulphide (CAS 1314-98-3); MAK: 0.1 mg/m³ (airborne); 2 mg/m³ (inhalable)

Barium sulphate: AGW: 1.25 mg/m³ (airborne); 10 mg/m³ (inhalable); 2(II)

Parameters to be controlled (EC):

Derived No-Effect Level (DNEL):

Zinc sulphide (1314-98-3):

5 mg/m³ (worker, inhalation, chronic effects - systemic)

Barium sulphate:

13000 mg/kg bw/d (consumer, swallowing, chronic effects - systemic)

10 mg/m³ (worker/consumer, inhalation, chronic effects - systemic)

Predicted No-Effect Concentration (PNEC):

Zinc sulphide (1314-98-3):

Fresh water: 20.6 µg/l

Fresh water sediment: 117.8 mg/kg

Seawater: 6.1 µg/l

Soil: 35.6 mg/kg

Sewage treatment system (STP): 100 mg/l

Barium sulphate:

Fresh water: 227.8 mg/l

Fresh water sediment: 792.7 mg/kg

Soil: 207.7 mg/kg

Sewage treatment system (STP): 50.1 mg/l

Additional Information:

8.2. Exposure Controls

Technical protective measures:

No further measures, see Section 7.

Personal Protection

General protective measures:

Wash hands before breaks and after work.

Avoid contact with eyes.

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Do not inhale dust.

Avoid contact with skin.

Respiratory protection:

None required under normal operating conditions.

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.

Eye protection:

Safety glasses (EN 166)

Body protection:

Environmental precautions:

Do not allow entering sewerage system.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: powder

Color: white

Odor: odorless

Odor threshold:

No information available.

pH-Value:

not applicable

Melting temperature:

> 800°C

Boiling temperature:

not determined

Flash point:

not applicable

Evaporation rate:

not applicable

Flammability (solid, gas):

not applicable

Upper explosion limit:

not determined

Lower explosion limit:

not determined

Vapor pressure:

not applicable

Vapor density:

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No information available.

Density: 4.3 g/cm³ (20°C)

Solubility in water: insoluble

Coefficient of variation (n-Octanol/Water):
not determined

Auto-ignition temperature:
Product is not auto-ignitable.

Decomposition temperature:
not determined

Viscosity, dynamic:
not applicable

Explosive properties:
Product does not present an explosion hazard.

Oxidizing properties:
No information available.

Bulk density:
not determined

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**
Stable if used according to specifications.

10.2. **Chemical Stability**
Stable if used according to specifications.

10.3. **Possibility of Hazardous Reactions**
Unknown.

10.4. **Conditions to Avoid**
Conditions to avoid:
No decomposition if used according to specifications.

Thermal decomposition:
No further information available.

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10.5. Incompatible Materials

No information available.

10.6. Hazardous Decomposition Products

Sulphur oxides (SO_x).

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

Zinc sulphide (1314-98-3): > 15000 mg/kg (rat)

Barium sulphate: > 15000 mg/kg (rat)

LD50, dermal:

Zinc sulphide (1314-98-3): > 2000 mg/kg (rat)

LC50, inhalation:

Zinc sulphide (1314-98-3): > 5.04 mg/kg (4h; rat)

Primary effects

Irritant effect on skin:

Non irritating

Irritant effect on eyes:

Dust may cause irritation.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

No data available.

Reproductive toxicity:

No data available.

Carcinogenicity:

No data available.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No data available.

Additional toxicological information:

No health impairments known or expected when used according to specifications.

12. Ecological Information

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12. 1. Aquatic Toxicity

Fish toxicity:

Zinc sulphide: LC50: > 0.25 mg/l (96h, *Brachydanio rerio*; OECD 203)

Zinc sulphide: EC0: 56.5 mg/l (24h, sea sediments)

Barium sulphate: LC50: > 3.5 mg/l (96h, *Brachydanio rerio*; OECD 203)

Daphnia toxicity:

Zinc sulphide: EC50: > 0.29 mg/l (48h, *Daphnia magna*; OECD 202)

Barium sulphate: EC50: 14.5 mg/l (48h, *Daphnia magna*; OECD 202)

Bacteria toxicity:

no information available

Algae toxicity:

Zinc sulphide: EC50: > 0.13 mg/l (72h, *Algae*; OECD 201)

Barium sulphate: EC50: > 1.92 mg/l (72h, *Pseudokirchneriella subcapitata*; OECD 201)

12. 2. Persistency and Degradability

No information available.

12. 3. Bioaccumulation

No information available.

12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

Not applicable.

12. 6. Other Adverse Effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14. 1. UN Number

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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 no.:

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

14. 8. Further Information

15. Regulatory Information

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

Water hazard class:

0, not hazardous

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

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

15.3. Further Information

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.