

SAFETY DATA SHEET

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Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.

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



1425 000 1425 120

Lithopone Silver Seal 60 %

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

1. 1. Product Identifier

Product Name: Lithopone

Article No.: 46100

UFI:

-

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

Identified uses:

Additive, fillers, colorants, pigments

Uses advised against:

Not for cosmetics, foods additives, medicine, feed additives,

permanent implants

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

Company: Deffner & Johann GmbH

Address: Mühläckerstraße 13, D-97520 Röthlein, Germany

Tel./Fax.: Tel. +49 9723 9350-0, Fax +49 9723 9350-25

Internet: www.deffner-johann.de

EMail: info@deffner-johann.de

Importer:

1. 4. Emergency No.

Emergency No.: Tel. +49 9723 9350-0 (Mo. - Fr.: 8:00 - 15:00 Uhr)

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)

This product does not require classification and labelling as

hazardous according to CLP/GHS.

Possible Environmental Effects:

2. 2. Label Elements

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

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:

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2. 3. Other Hazards

3. Composition/Information on Ingredients

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

Information on Components / Hazardous

Ingredients:

Zinc sulphide, ZnS; REACH Reg. No. 01-

2119474779-15-0000

> 60 % CAS-Nr: 1314-98-3

EINECS-Nr: 215-251-3

EC-Nr:

Barium sulphate, REACH Reg. No. 01-

2119491274-35-0000

> 40 % CAS-Nr: 7727-43-7

EINECS-Nr: 231-784-4

EC-Nr:

Additional information:

4. First Aid Measures

4. 1. Description of the First Aid Measures

General information:

Consult physician.

After inhalation:

Supply fresh air. Consult physician if symptoms persist.

After skin contact:

Wash off with plenty of water and soap.

If symptoms persist, consult a physician.

After eye contact:

Rinse eyes with water.

Seek medical attention if irritation persists.

After ingestion:

Rinse mouth with water and drink plenty of water. Do not induce vomiting without medical advice.

If symptoms persist consult physician.

4. 2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

Eye contact: can cause mechanical irritation.

Inhalation (increased exposition): coughing, shortness of breath,

feeling of tightness in the chest, sore throat.

Skin contact: prolonged contact may cause dryness of the skin.

Effects:

4. 3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No further information available.

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5. Fire-Fighting Measures

5. 1. Extinguishing Media

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

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

jet.

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 sulfuric acids and metal oxides.

5. 3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

Cool closed containers exposed to fire with water mist.

6. Accidential 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.

Do not eat or drink during work. Do not smoke.

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7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in closed container and keep product dry.

Electric equipment have to comply with the technological safety

standards.

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:

13; Non combustible solids (TRGS 510)

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):

TRGS 900

Zinc sulphide (CAS 1314-98-3), TLV: 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:

Derived No-Effect Level (DNEL):

Zinc sulphide (1314-98-3):

5 mg/m3 (worker, inhalation, long-term exposure - systemic

effects)

83 mg/kg (worker, skin contact, long-term exposition - systemic

effects)

2.5 mg/m3 (consumer, inhalation, long-term exposure - systemic

effects)

83 mg/kg (consumer, skin contact, long-term exposure - systemic

effects)

0.83 mg/kg (consumer, swallowing, long-term exposition -

systemic effects)

Barium sulphate:

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

systemic)

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

systemic)

Predicted No-Effect Concentration (PNEC):

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Zinc sulphide (1314-98-3): Fresh water: 20.6 µg/l

Fresh water sediment: 117.8 mg/kg

Seawater: 6.1 µg/l

Seawater sediment: 56.5 mg/kg

Soil: 35.6 mg/kg

Sewage treatment system (STP): 100 mg/l

Barium sulphate: Fresh water: 115 µg/l

Fresh water sediment: 600.4 mg/kg

Sewage treatment system (STP): 62.2 mg/l

Soil: 207.7 mg/kg

Additional Information:

8. 2. Exposure Controls

Technical protective measures:

Facilities storing or utilizing this material should be equipped with

an eyewash and shower facility.

Personal Protection

General protective measures:

Wash hands before breaks and after work.

Avoid contact with eyes. 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

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Page 6 Revised edition: 18.07.2019 Version: 4.0 Printed: 18.05.2021 pH-Value: > 800°C Melting temperature: 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: No information available. Density: 4.3 g/cm3 (20°C) Solubility in water: 0.01 g/l (20°C) Coefficient of variation (n-Octanol/Water): not determined Auto-ignition temperature: No information available. Decomposition temperature: not determined Viscosity, dynamic: not applicable Explosive properties: Dust can form explosive mixtures with air. Oxidizing properties: no information available Bulk density: not determined

9. 2. Further Information

Solubility in solvents: Viscosity, kinematic:

Burning class:

Solvent content:

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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

Dust can form explosive mixtures with air.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid temperatures above 800°C.

pH Value < 5

Thermal decomposition:

Avoid heat.

10.5. Imcompatible Materials

Strong reducing agents.

Acids

10.6. Hazardous Decomposition Products

Sulphur oxides (SOx). Hydrogen sulfide gas.

Metal oxides.

10.7. Further Information

11. 1.

11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity LD50, oral:

Zinc sulphide (1314-98-3): > 15000 mg/kg (rat; OECD 401)

Barium sulphate: > 5000 mg/kg (rat; OECD 401)

LD50, dermal:

No adverse effects expected.

LC50, inhalation:

Zinc sulphide (1314-98-3): > 5.7 mg/kg (4h, rat; OECD 403)

Primary effects

Irritant effect on skin:

Zinc sulphide: no irritating effect Barium sulphate: no irritating effect

Irritant effect on eyes:

Zinc sulphide: no irritating effect

Barium sulphate: no irritating effect (rabbit; OECD 405) next page:

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Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

Barium sulphate:

In vitro genetic-toxicity: negative (OECD 476, mouse lymphona

cells)

In vitro genetic-toxicity: Ames-Test negative (OECD 471)

In vitro Mammalian Chromosomal Aberration Test (OECD 473):

negative

Reproductive toxicity:

No reproductive toxicity expected.

Carcinogenicity:

Not cancerogenic.

Barium sulphate: 60 - 75 mg/kg: negative (rat (m/f), oral, 104 weeks; Method: OPPTS 870.4200); 160 - 200 mg/kg: negative

(mouse (m/f), oral; Method: OPPTS 870.4200)

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Single exposure: no organospecific toxicity expected. Repeated exposure: no organospecific toxicity expected.

Barium sulphate: Repeated exposure (swallowing): NOAEL: 104

mg/kg (rat)

Additional toxicological information:

No health impairments known or expected when used according to

specifications.

12. Ecological Information

12. 1. Aquatic Toxicity

Fish toxicity:

Zinc sulphide: EC50: 100 mg/l (96h, Danio rerio; OECD 203)

Barium sulphate: LC50: no toxicity (96h, Danio rerio; OECD 203)

Daphnia toxicity:

Zinc sulphide: EC50: 100 mg/l (48h, Daphnia magna; OECD 202)

Barium sulphate: LC50: no toxicity (48h, Daphnia magna; OECD 202); NOEC: no toxicity (21d, Daphnia magna; OECD 211)

Bacteria toxicity:

no information available

Algae toxicity:

Zinc sulphide: EC50: 100 mg/l (72h, Desmodesmus subspicatus;

OECD 202)

Barium sulphate: EC50: > 1.92 mg/l (72h; OECD 201) next page:

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IMDG Class (sea):



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9 Page Revised edition: 18.07.2019 Version: 4.0 Printed: 18.05.2021 12. 2. Persistency and Degradability Methods for the evaluation of the biological degradability are not applicable for inorganic substances. 12.3. Bioaccumulation No bioaccumulation expected. **Mobility** 12.4. No information available. 12. 5. Results of PBT- und vPvP Assessment On the basis of available data, the product does not contain any PBT or vPvB substances in percentage greater than 0.1 %. 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. Do not let product enter water systems. 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:

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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. 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 (German Regulation)

Local regulations on chemical accidents:

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

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.

EC SVHC-List: This product does not contain a substance in the candidate list for substances of very high concern (REACH

Regulation (EC) 1907/2006, Article 57)

15. 3. **Further Information**

EC. REACH, Annex XIV, Candidate List of Substances of very

High Concern (SVHC): not regulated / not applicable

Listed in the following inventories:

TSCA (US), AICS (AUS), DSL (CA), ENCS (JP), KECI (KR),

PICCS (PH), NZIoC (NZ), IECSC (CN), TSCI (TW)

16. Other Information

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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.