

Safety Data Sheet

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



63210 Casein Binding Medium

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Revised edition: 25.01.2023

Version: 2

Printed: 19.05.2023

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

1.1. Product Identifier

Product Name: Casein Binding Medium

Article No.: 63210

UFI: --

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

Identified uses:
Preparation of adhesives, paints and varnishes

Uses advised against:
none

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)*

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

Possible Environmental Effects:
See Section 12.

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:

Other Hazards

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2.3.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

This produkt is a mixture.

Chemical Characterization:

Casein. CAS No. 900-71-9; EINECS 232-555-1

Information on Components / Hazardous Ingredients:

Disodium tetraborate decahydrate (Repr.1B, H360Df-H319)

< 6 %

CAS-Nr: 1303-96-4

EINECS-Nr: 215-540-4

EC-Nr: 005-011-01-1

Additional information:

This product contains a substance which is on the candidate list according to Article 59 of the REACH Regulation 1907/2006 (1, 10) in a concentration ≥ 0.1 % (w/w).

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

Remove contaminated clothes.

After inhalation:

Supply fresh air.

After skin contact:

Wash off immediately with soap and plenty of water and rinse thoroughly.

After eye contact:

Rinse open eye for several minutes under running water.

After ingestion:

Immediately get medical help.

Rinse mouth with water and give plenty of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

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

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5. 1. Extinguishing Media

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

5. 2. Special Hazards arising from the Substance or Mixture

Special hazards:

Do not inhale fumes.

5. 3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device and protective clothing.

Further information:

6. Accidental Release Measures

6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Ensure adequate ventilation.

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.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

Provide adequate ventilation.

Hygienic measures:

No special measures required.

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

Storage conditions:

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

Requirements for storage areas and containers:

No special measures necessary.

Information on fire and explosion

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protection:

No information available.

Storage class:

10-13 (TRSG 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):

Disodium tetraborate decahydrate (CAS 1303-96-4), AGW: 0.5 mg/m³ (2)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

8. 2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Facilities storing or utilizing this material should be equipped with an eyewash and shower facility.

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.

Respiratory protection:

Required in case of insufficient ventilation (EN 143 or 149).

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Nitrile rubber (> 480 min, 0.35 mm)

Natural rubber (> 240 min, 0.5 mm)

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

No special measures required.

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9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form:	<i>highly viscous liquid</i>
Color:	<i>creme colored</i>
Odor:	<i>characteristic</i>
Odor threshold:	<i>no information available</i>
pH-Value:	<i>not determined</i>
Melting temperature:	<i>not determined</i>
Boiling temperature:	<i>not determined</i>
Flash point:	<i>not applicable</i>
Evaporation rate:	<i>not applicable</i>
Flammability (solid, gas):	<i>not flammable</i>
Upper explosion limit:	<i>not determined</i>
Lower explosion limit:	<i>not determined</i>
Vapor pressure:	<i>not applicable</i>
Vapor density:	<i>No information available.</i>
Density:	
Solubility in water:	<i>dilutable</i>
Auto-ignition temperature:	
Decomposition temperature:	<i>not determined</i>
Viscosity, dynamic:	<i>not applicable</i>
Explosive properties:	<i>not applicable</i>
Oxidizing properties:	<i>no information available</i>
Bulk density:	

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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:

Avoid heat.

Thermal decomposition:

No decomposition if used according to specifications.

10.5. Incompatible Materials

No information available.

10.6. Hazardous Decomposition Products

None known.

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:

Disodium tetraborate decahydrate (1303-96-4): 4500-5000 mg/kg (rat)

LD50, dermal:

Disodium tetraborate decahydrate (1303-96-4): > 10000 mg/kg (rabbit)

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

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Non irritating

Irritant effect on eyes:

Non-irritating to eyes

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

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):

No relevant data found.

Aspiration hazard:

Not applicable

11. 2. Information on other Hazards

No further information available.

12. Ecological Information

12. 1. Aquatic Toxicity

Fish toxicity:

Boric acid: LC50: 456 mg/l (96h, Pimepales promelas)
Sodium tetraborate: LC50: 88 mg/l (24d, Oncorhynchus mykiss)
Sodium tetraborate: LC50: 54 mg/l (32d, Oncorhynchus mykiss)
Sodium tetraborate: LC50: 65 mg/l (7d, Cassius auratus)
Sodium tetraborate: LC50: 71 mg/l (3d, Cassius auratus)

Daphnia toxicity:

Boric acid: LC50: 760 mg/l (48h, Daphnia magna)

Bacteria toxicity:

No data available.

Algae toxicity:

Boric acid: EC50: 229 mg/l (72h, Pseudokirchneriella subcapitata)

12. 2. Persistency and Degradability

Readily biodegradable.

12. 3. Bioaccumulation

No information available.

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12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

No data available.

12. 6. Endocrine Disrupting Properties

This product does not contain components considered to have endocrine disrupting properties.

12. 7. Other Adverse Effects

Water hazard class:

1, slightly hazardous (German Regulation; Self-assessment).

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:

Non contaminated packaging can either be recycled or utilized for energy (incineration).

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

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

not applicable

Hazard no.:

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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

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, self-assessment)

Local regulations on chemical accidents:

Not listed.

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

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.