

Safety Data Sheet

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



58935 Laponite® RD

Page 1

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

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

1.1. Product Identifier

Product Name: Laponite® RD

Article No.: 58935

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

Identified uses:

Rheological additive

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.com

E-Mail: 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:

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:

2.3. Other Hazards

Floor may be slippery; use care to avoid falling.

3. Composition/Information on Ingredients

Substance

next page: 2

Safety Data Sheet

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



58935 Laponite® RD

Page 2

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

3.1.

3.2. Mixture

Chemical Characterization:

Information on Components / Hazardous Ingredients:

Silicic acid, lithium magnesium sodium salt; REACH Reg. No. 01-2119489772-23-0000	100 %	CAS-Nr: 53320-86-8 EINECS-Nr: 258-476-2 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

*Remove contaminated clothes immediately.
Seek medical attention in case of complaints.*

After inhalation:

Supply fresh air and seek medical advice in case of complaints.

After skin contact:

*Wash with soap and rinse with plenty of water.
If symptoms persist, consult a physician.
Wash contaminated clothing 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:

*After swallowing larger amount of product seek medical aid.
Rinse mouth with plenty of water.
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:

No further information available.

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No information available.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

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

Unsuitable extinguishing media:

next page: 3

Safety Data Sheet

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



58935 Laponite® RD

Page 3

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

No special hazards.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device and full protective gear.

Further information:

Not combustible.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Avoid formation of dust, wear protective clothing. Keep spectators away.

Together with water product causes slippery surfaces.

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.

Clean up with a suitable industrial vacuum cleaner and dispose adequately.

Clean with water.

Avoid dust formation.

6.4. Reference to other Sections

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 and deposition of dust. Provide adequate ventilation.

Avoid contact with eyes and skin.

Hygienic measures:

Avoid contact with eyes and skin.

Take off contaminated clothing immediately.

Wash hands before breaks and after work.

7.2. Conditions for Safe Storage, including any Incompatibilities

next page: 4

Safety Data Sheet

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



58935 Laponite® RD

Page 4

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

Storage conditions:

Store in tightly sealed containers in a well ventilated location.

Protect against humidity and water.

Requirements for storage areas and containers:

Store product in closed containers.

Store in containers which correspond to the original packaging.

Information on fire and explosion protection:

Avoid dust formation.

Do not store together with: acids.

Do not store together with: oxidants.

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):

TRGS 900

TLV: 1.25 mg/m³ air-borne fraction (general dust limit)

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

Peak limit Category: 2 (II)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Silicic acid, lithium magnesium sodium salt (53320-86-8):

40 mg/kg/d (worker, skin contact, short-term exposure - systemic effects)

10 mg/m³ (worker, inhalation, long and short-term exposure - systemic and local effects)

1 mg/kg/d (worker, skin contact, long-term exposure - systemic effects)

1 mg/cm³ (worker, skin contact, short-term exposure - local effects)

2 mg/cm³ (worker, skin contact, long-term exposure - systemic effects)

2.50 mg/kg/d (consumer, swallowing/skin contact, long-term exposure - systemic effects)

20 mg/kg/d (consumer, swallowing/skin contact, short-term exposure - systemic effects)

1.0 mg/cm³ (consumer, skin contact, long-term exposure - local effects)

0.40 mg/cm³ (consumer, skin contact, short-term exposure - local effects)

10 mg/m³ (consumer, inhalation, long and short-term exposure -

next page: 5

Safety Data Sheet

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



58935 Laponite® RD

Page 5

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

systemic effects)

6.50 mg/m³ (consumer, inhalation, long-term exposure - local effects)

10 mg/m³ (consumer, inhalation, short-term exposure - local effects)

Predicted No-Effect Concentration (PNEC):

Silicic acid, lithium magnesium sodium salt:

Fresh water: 0.10 mg/l

Sea water: 0.10 mg/l

Water: 0.10 mg/l

Sewage treatment system (STP): 1 mg/l

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Personal Protection

General protective measures:

Do not inhale dust.

Avoid contact with eyes.

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Recommended: filter FP 3

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

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

Avoid contamination of sewage system, open water ways and ground water.

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.

next page: 6

Safety Data Sheet

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



58935 Laponite® RD

Page 6

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

<i>pH-Value:</i>	9.8 (2% in H ₂ O)
<i>Melting temperature:</i>	not applicable
<i>Boiling temperature:</i>	not determined
<i>Flash point:</i>	not applicable
<i>Evaporation rate:</i>	not applicable
<i>Flammability (solid, gas):</i>	not applicable
<i>Upper explosion limit:</i>	no information available
<i>Lower explosion limit:</i>	no information available
<i>Vapor pressure:</i>	< 0.0001 hPa
<i>Vapor density:</i>	No information available.
<i>Density:</i>	2.53 g/cm ³ (22°C/71.6°C)
<i>Solubility in water:</i>	slightly soluble
<i>Coefficient of variation (n-Octanol/Water):</i>	no information available
<i>Auto-ignition temperature:</i>	not applicable
<i>Decomposition temperature:</i>	> 500°C
<i>Viscosity, dynamic:</i>	not available
<i>Explosive properties:</i>	not applicable
<i>Oxidizing properties:</i>	no information available
<i>Bulk density:</i>	1000 kg/m ³

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

next page: 7

Safety Data Sheet

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



58935 Laponite® RD

Page 7

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

Particle size:

Other 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

None if used according to specifications.

10.4. Conditions to Avoid

Conditions to avoid:

*Avoid formation of dust.
Protect from humidity and water.*

Thermal decomposition:

No data available.

10.5. Incompatible Materials

Strong acids and strong oxidizing agents.

10.6. Hazardous Decomposition Products

None if stored and handled according to specifications.

10.7. Further Information

Product does not polymerize.

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral: > 2000 mg/kg (rat; OECD 420)

LD50, dermal: > 2000 mg/kg (rabbit)

LC50, inhalation: > 200 mg/l (1h, rat)

Primary effects

Irritant effect on skin:

Non irritating (rabbit)

Irritant effect on eyes:

*Non-irritating to eyes (OECD 437)
Product dust may cause irritation.*

Inhalation:

Non irritating.

Ingestion:

Non irritating.

Sensitization:

Non sensitizing (mouse; OECD 429).

Mutagenicity:

next page: 8

Safety Data Sheet

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



58935 Laponite® RD

Page 8

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

Not mutagenic.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

Not considered to be teratogenic.

Specific target organ toxicity (STOT):

No relevant data found.

Additional toxicological information:

Inhalation: Long-term overexposure can irritate the respiratory tract.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

*LC50: > 100 mg/l (96h, *Oncorhynchus mykiss*; OECD 203)*

Daphnia toxicity:

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

Bacteria toxicity:

EC50: > 1000 mg/l (3h; active sludge; OECD 209)

Algae toxicity:

*EC50: > 100 mg/l (72h, *Pseudokirchneriella subcapitata*; OECD 201)*

12.2. Persistency and Degradability

Not readily biodegradable.

Methods for the evaluation of the biological degradability are not applicable for inorganic substances.

12.3. Bioaccumulation

No information available.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvB Assessment

This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.

12.6. Other Adverse Effects

Water hazard class:

1, slightly hazardous

Behaviour in sewage systems:

Further ecological effects:

Do not let product enter waterways or sewage system.

AOX Value:

next page: 9

Safety Data Sheet

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



58935 Laponite® RD

Page 9

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

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

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.

14.6. Special Precautions for User

not applicable

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

not evaluated

next page: 10

Safety Data Sheet

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



58935 Laponite® RD

Page 10

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

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 (according to the German Regulation AwSV, 01.08.2017)

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 not been carried out for 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:

EINECS (258-476-2), TSCA (US), AICS (AUS), DSL (CA), ENCS (JP), ECL (KR), PICCS (PH), IECSC (CN), NZIoC (NZ)

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.