

# Safety Data Sheet

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

# Labshop

Chemicals, Restoration and Art Supplies

## O58935 Laponite® RD

Page 1

Revised edition: 01.12.2020

Version: 1.2

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

#### 1.1. Product Identifier

*Product Name:* Laponite® RD

*Article No.:* O58935

#### 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:* Interlabshop BV

*Address:* Lage Brink 23, 7317BD Apeldoorn The Netherlands

*Tel./Fax.:* +31(0)55-5215016

*Internet:* www.labshop.nl

*EMail:* labshop@labshop.nl

*Importer:* --

#### 1.4. Emergency No.

*Emergency No.:* 112 (24 hours a day)

#### 1.4.2 Poison Center:

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### 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.*

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### 3. Composition/Information on Ingredients

Substance

next page: 2

## Safety Data Sheet

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

### 058935 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:

*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 (CO<sub>2</sub>), extinguishing powder, water spray jet.*

*Unsuitable extinguishing media:*

next page: 3

**O58935 Laponite® RD**

Page 3

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

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*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.*

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**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.*

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**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

## O58935 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/m<sup>3</sup> air-borne fraction (general dust limit)  
TLV: 10 mg/m<sup>3</sup> 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/m<sup>3</sup> (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/cm<sup>3</sup> (worker, skin contact, short-term exposure - local effects)  
2 mg/cm<sup>3</sup> (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/cm<sup>3</sup> (consumer, skin contact, long-term exposure - local effects)  
0.40 mg/cm<sup>3</sup> (consumer, skin contact, short-term exposure - local effects)  
10 mg/m<sup>3</sup> (consumer, inhalation, long and short-term exposure -

## Safety Data Sheet

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

# Labshop

Chemicals, Restoration and Art Supplies

### O58935 Laponite® RD

Page 5

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

*systemic effects)*

*6.50 mg/m<sup>3</sup> (consumer, inhalation, long-term exposure - local effects)*

*10 mg/m<sup>3</sup> (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)

### O58935 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 <sub>2</sub> 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 <sup>3</sup> (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 <sup>3</sup>

#### 9.2. Further Information

*Solubility in solvents:*  
*Viscosity, kinematic:*  
*Burning class:*  
*Solvent content:*  
*Solid content:*

next page: 7

**O58935 Laponite® RD**

Page 7

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

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*Particle size:**Other information:*

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**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.*

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**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

**O58935 Laponite® RD**

Page 8

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

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*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.*

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**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 vPvP 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:*

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## O58935 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

**O58935 Laponite® RD**

Page 10

Revised edition: 01.12.2020

Version: 1.2

Printed: 14.12.2020

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**14. 8. Further Information**

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**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)*

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**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.*