



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Levasil FO830, FO1430, FO1430 T (EU)

Revision 2
Revision date 2020-06-01

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

| | |
|--------------|--------------------------------------|
| Product name | Levasil FO830, FO1430, FO1430 T (EU) |
|--------------|--------------------------------------|

1.2. Relevant identified uses of the substance or mixture and uses advised against

| | |
|-------------|---|
| Product Use | [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; |
| Description | Foundry material. |

1.3. Details of the supplier of the safety data sheet

| | |
|---------------------------------------|--|
| Company | Ransom & Randolph |
| Address | 3535 Briarfield Boulevard, PO Box 1570 Maumee, Ohio 43537 USA |
| Web | www.ransom-randolph.com |
| Telephone | +1 (419) 865-9497 |
| Fax | +1 (419) 865-9997 |
| Email | RR.SDS@dentsply.com |
| Email address of the competent person | RR.SDS@dentsply.com |

1.4. Emergency telephone number

| | |
|----------------------------|--|
| Emergency telephone number | USA +1 419 865 9497 |
| Company | Ransom & Randolph Co. 08:00-17:00 (US Eastern Std. / GMT minus 5) |

SECTION 2: Hazards identification

2.2. Label elements

| | |
|-------------------------------------|---|
| Precautionary Statement: Prevention | This mixture/substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008. P262 - Do not get in eyes, on skin, or on clothing. Wear suitable gloves and eye/face protection. |
| Hazard Statement | No Significant Hazard |

2.3. Other hazards

| | |
|---------------|---|
| Other hazards | EU - Amorphous silica may be converted to crystalline silica (cristobalite) when subjected to very high temperatures (927° C). Avoid breathing dust/fume/gas/mist/vapours/spray. |
|---------------|---|

Further information

| | |
|--|--|
| | Not applicable. PBT and vPvB assessment. |
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

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3.2. Mixtures**EC 1272/2008**

| Chemical Name | Index No. | CAS No. | EC No. | REACH Registration Number | Conc. (%w/w) | Classification |
|--------------------|-----------|-----------|-----------|---------------------------|--------------|----------------|
| silica (amorphous) | | 7631-86-9 | 231-545-4 | | | |

SECTION 4: First aid measures**4.1. Description of first aid measures**

| | |
|--------------|---|
| Inhalation | Move the exposed person to fresh air. |
| Eye contact | Rinse immediately with plenty of water for 15 minutes holding the eyelids open. |
| Skin contact | Wash with soap and water. |
| Ingestion | Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|--------------|---|
| Inhalation | May cause irritation to respiratory system. |
| Eye contact | May cause irritation to eyes. |
| Skin contact | May cause irritation to skin. |
| Ingestion | May cause irritation to mucous membranes. |

4.3. Indication of any immediate medical attention and special treatment needed

| | |
|--------------|---|
| Inhalation | Seek medical attention if irritation or symptoms persist. |
| Eye contact | Seek medical attention if irritation or symptoms persist. |
| Skin contact | Seek medical attention if irritation or symptoms persist. |
| Ingestion | Seek medical attention if irritation or symptoms persist. |

SECTION 5: Firefighting measures**5.1. Extinguishing media**

| | |
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| | Use extinguishing media appropriate to the surrounding fire conditions. |
|--|---|

5.2. Special hazards arising from the substance or mixture

| | |
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| | Burning produces irritating, toxic and obnoxious fumes. |
|--|---|

5.3. Advice for firefighters

| | |
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| | Self-contained breathing apparatus. Wear suitable protective clothing. |
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

| | |
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| | Wear suitable protective equipment. |
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6.2. Environmental precautions

| | |
|--|---------------------------------------|
| | Do not allow product to enter drains. |
|--|---------------------------------------|

6.3. Methods and material for containment and cleaning up

| | |
|--|--|
| | Absorb with inert, absorbent material. Transfer to suitable, labelled container. |
|--|--|

6.4. Reference to other sections

| | |
|--|--|
| | See section [2, 8 & 13] for further information. |
|--|--|

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

| | |
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| | Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Wash hands after handling the product. |
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7.2. Conditions for safe storage, including any incompatibilities

| | |
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| | Do NOT allow to freeze. Keep in a cool, dry, well ventilated area. Keep containers tightly closed. |
|--|--|

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7.3. Specific end use(s)

Foundry material.


SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

| | | |
|--|--|--|
| Levasil FO830, FO1430, FO1430 T (EU) (Matrixsol(TM)) 30 colloidal silica | WEL 8-hr limit ppm: | WEL 8-hr limit mg/m3: 2.1 |
| | WEL 15 min limit ppm: | WEL 15 min limit mg/m3: |
| | WEL 8-hr limit mg/m3 total - inhalable dust: | WEL 15 min limit mg/m3 total - inhalable dust: |
| | WEL 8-hr limit mg/m3 total - respirable dust: | WEL 15 min limit mg/m3 total - respirable dust: |

8.2. Exposure controls

| | |
|---|---|
| |  |
| 8.2.1. Appropriate engineering controls | Ensure adequate ventilation of the working area. |
| 8.2.2. Individual protection measures | Apron (Plastic or rubber). |
| Eye / face protection | In case of splashing, wear:.. Approved safety goggles. |
| Skin protection - Handprotection | Wear suitable gloves. |
| Respiratory protection | Suitable respiratory equipment. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------|-----------------------|
| Appearance | Liquid |
| Colour | Clear |
| Odour | Slight |
| pH | 10.2 |
| Melting point | Not applicable. |
| Freezing Point | ≈ 0 °C |
| Initial boiling point | ≈ 100 °C |
| Evaporation rate | No data available |
| Flammability (solid, gas) | Not applicable. |
| Vapour pressure | No data available |
| Vapour density | No data available |
| Relative density | 1.2 (H2O = 1 @ 20 °C) |
| Fat Solubility | Not applicable. |
| Partition coefficient | No data available |
| Autoignition temperature | Not applicable. |
| Viscosity | No data available |
| Explosive properties | Not applicable. |
| Oxidising properties | Not applicable. |
| Solubility | Miscible in water |

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9.2. Other information

| | |
|----------------------------------|-------------------|
| Conductivity | No data available |
| Surface tension | No data available |
| Gas group | Not applicable. |
| Benzene Content | Not applicable. |
| Lead content | Not applicable. |
| VOC (Volatile organic compounds) | Not applicable. |

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|--|-----------------|
| | Not applicable. |
|--|-----------------|

10.2. Chemical stability

| | |
|--|---------------------------------|
| | Stable under normal conditions. |
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10.3. Possibility of hazardous reactions

| | |
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| | No Significant Hazard. |
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10.4. Conditions to avoid

| | |
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| | Direct sunlight. Do NOT allow to freeze. |
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10.5. Incompatible materials

| | |
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| | Sodium chloride. |
|--|------------------|

10.6. Hazardous decomposition products

| | |
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| | None. |
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------------|---|
| Acute toxicity | Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation | May cause irritation to skin. |
| Serious eye damage/irritation | May cause irritation to eyes. |
| Respiratory or skin sensitisation | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| STOT-single exposure | Based on available data, the classification criteria are not met. |
| STOT-repeated exposure | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |
| Repeated or prolonged exposure | May cause irritation to skin. |

11.1.4. Toxicological Information

| | |
|--------------------------------------|-------------------------|
| Levasil FO830, FO1430, FO1430 T (EU) | Oral Rat LD50: >15 g/kg |
|--------------------------------------|-------------------------|

SECTION 12: Ecological information

12.1. Toxicity

| | | |
|--------------------------------------|-----------------------------------|---------------------------|
| Levasil FO830, FO1430, FO1430 T (EU) | Daphnia EC50/48h: 7600.000 mg/l | Green Algae EC50/48h: 440 |
| | Brachydanio Rerio LC50/96h: >5000 | |

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12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

Does not bioaccumulate.

Partition coefficient

Levasil FO830, FO1430, No data available
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12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in compliance with all. local and national regulations.

Disposal methods

Contact a licensed waste disposal company.

Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

Further information

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

Further information

The product is not classified as dangerous for carriage.

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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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|-------------|--|
| Regulations | nwg - not water endangering. |
| | <p>WGK.</p> <p>COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p> <p>REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p> |

15.2. Chemical safety assessment

| | |
|--|---------------------------------------|
| | No data is available on this product. |
|--|---------------------------------------|

SECTION 16: Other information**Other information**

| | |
|----------|---|
| Revision | <p>This document differs from the previous version in the following areas:</p> <p>15 - 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.</p> <p>15 - Regulations.</p> |
|----------|---|

Further information

| | |
|--|---|
| | <p>The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.</p> <p>Training Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.</p> |
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