

Safety Data Sheet

FORBO FRS885
Revision Number 1

Revision Date 03-May-2019
Supersedes Date: 03-May-2019

1. Identification

1.1. Product Identifier

Product Name FORBO FRS885

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

Recommended use Adhesives.
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Responsible Party
Forbo Flooring NA
Humbolt Industrial Park
8 Maplewood Drive
Hazelton, PA 18202 USA
Phone: +1 (800) 842-7839

1.4. Emergency telephone number

Telephone: +1 (800) 842-7839

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Not a dangerous substance or mixture according to OSHA 29 CFR 1910.1200

2.2. Label Elements

EMERGENCY OVERVIEW

Not a dangerous substance or mixture according to OSHA 29 CFR 1910.1200.

| | | |
|--------------------------|------------------------------|--------------------|
| Appearance Liquid | Physical State Liquid | Odor Slight |
|--------------------------|------------------------------|--------------------|

Precautionary Statements - Prevention
Not applicable

Precautionary Statements - Response
Not applicable

Precautionary Statements - Storage
Not applicable

Safety Data Sheet

FORBO FRS885
Revision Number 1

Revision Date 03-May-2019
Supersedes Date: 03-May-2019

Precautionary Statements - Disposal

Not applicable

Hazards not otherwise classified (HNOC)

Not applicable

2.3. Other Information

No information available.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2 Mixtures

| Chemical name | CAS No. | Weight-% |
|---------------|------------|----------|
| Feldspar | 68476-25-5 | 10 - 30 |
| Quartz | 14808-60-7 | 1 - 5 |

**The exact percentage (concentration) of composition has been withheld as a trade secret.*

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

| | |
|---|--|
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub affected area. If eye irritation persists: Get medical advice/attention. |
| Skin contact | Wash off immediately with plenty of water for at least 15 minutes. In the case of skin irritation or allergic reactions see a physician. |
| Inhalation | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| Ingestion | Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. |
| Self-protection of the first aider | Use personal protective equipment as required. |

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

Symptoms No information available.

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

Note to physicians Treat symptomatically.

4.4. Reference to Other Sections

Reference to other sections Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 11: TOXICOLOGY INFORMATION

Section 5: FIRE-FIGHTING MEASURES

Safety Data Sheet

FORBO FRS885
Revision Number 1

Revision Date 03-May-2019
Supersedes Date: 03-May-2019

5.1. Extinguishing media

Suitable extinguishing media

Water spray (fog). Carbon dioxide (CO₂). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous Combustion Products

Carbon monoxide. Carbon dioxide (CO₂). Hydrocarbons.

Explosion Data

Sensitivity to mechanical impact

None.

Sensitivity to static discharge

None.

5.3. Advice for firefighters

Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Evacuate personnel to safe areas. Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions

Keep people away from and upwind of spill/leak. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment

Stop leak if you can do it without risk.

Methods for cleaning up

Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

6.4. Reference to other sections

Reference to other sections

Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safety Data Sheet

FORBO FRS885
Revision Number 1

Revision Date 03-May-2019
Supersedes Date: 03-May-2019

Advice on safe handling Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Do not reuse container.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Keep from freezing.

Incompatible materials No information available.

7.3. Specific end use(s)

Specific Use(s)
Adhesives.

Other information No information available.

7.4. References to Other Sections

Reference to other sections Section 13: DISPOSAL CONSIDERATIONS
Section 10: STABILITY AND REACTIVITY

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Guidelines This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

| Chemical name | ACGIH TLV | NIOSH IDLH | OSHA PEL | Mexico |
|------------------------|---|---|---|----------------------------|
| Feldspar 68476-25-5 | 2 mg/m ³ (Respirable fraction) | - | 15 mg/m ³ (Total Dust) 5 mg/m ³ (Respirable dust fraction) | - |
| Quartz 14808-60-7 | TWA: 0.025 mg/m ³ respirable particulate matter | IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust | TWA: 50 µg/m ³ TWA: 50 µg/m ³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction | TWA: 0.1 mg/m ³ |

| Chemical name | Argentina | Brazil | Chile | Venezuela |
|----------------------|-----------------------------|--------|-----------------------------|------------------------------|
| Quartz 14808-60-7 | TWA: 0.05 mg/m ³ | - | TWA: 0.08 mg/m ³ | TWA: 0.025 mg/m ³ |

8.2. Exposure controls

Engineering controls Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas. Use explosion-proof ventilating equipment.

Personal protective equipment [PPE]

Safety Data Sheet

FORBO FRS885
Revision Number 1

Revision Date 03-May-2019
Supersedes Date: 03-May-2019

| | |
|---------------------------------------|---|
| Eye/face protection | Wear safety glasses with side shields (or goggles). Avoid contact with eyes. |
| Skin and body protection | Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers. |
| Respiratory protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| General hygiene considerations | Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended. |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|----------------|--------------------------|
| Physical State | Liquid |
| Appearance | Liquid |
| Color | No information available |
| Odor | Slight |
| Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|--------------------------|-------------------------|
| pH | No information available | |
| Melting point / freezing point | No data available | |
| Boiling point / boiling range | 100 °C / 212 °F | |
| Flash Point | > 100 °C / > 212 °F | |
| Evaporation Rate | 1.0 | |
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | No information available | |
| Lower flammability or explosive limits | No information available | |
| Vapor Pressure | No information available | |
| Vapor Density | No information available | |
| Relative Density | No information available | |
| Water Solubility | Dispersible | |
| Solubility in Other Solvents | | |
| Partition coefficient | No information available | |
| Autoignition Temperature | No information available | |
| Decomposition Temperature | No information available | |
| Kinematic Viscosity | No information available | |
| Dynamic Viscosity | No information available | |
| Explosive properties | No information available | |
| Oxidizing properties | No information available | |

9.2. Other information

| | |
|---------------------------------|--------------------------|
| Softening Point | No information available |
| Molecular Weight | No information available |
| Solvent content (%) | No information available |
| Solid content (%) | No information available |
| Density | No information available |
| VOC (volatile organic compound) | No information available |

Section 10: STABILITY AND REACTIVITY

Safety Data Sheet

FORBO FRS885
Revision Number 1

Revision Date 03-May-2019
Supersedes Date: 03-May-2019

10.1. Reactivity

None under normal use conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Keep from freezing.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO₂). Hydrocarbons.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

| | |
|----------------------------|---|
| Product Information | No data available |
| Inhalation | Based on available data, the classification criteria are not met. |
| Eye contact | Based on available data, the classification criteria are not met. |
| Skin contact | Based on available data, the classification criteria are not met. |
| Ingestion | Based on available data, the classification criteria are not met. |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------|---------------------|-------------|-----------------|
| Quartz 14808-60-7 | >2000 mg/kg (Rat) | - | - |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--|---------------------------|
| Symptoms | No information available. |
| Skin corrosion/irritation | No information available. |
| Serious eye damage/eye irritation | No information available. |
| Irritation | No information available. |
| Corrosivity | No information available. |
| Sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Reproductive toxicity | No information available. |
| Developmental Toxicity | No information available. |
| Teratogenicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Chronic Toxicity | No information available. |
| Target Organ Effects | No information available. |

Safety Data Sheet

FORBO FRS885
Revision Number 1

Revision Date 03-May-2019
Supersedes Date: 03-May-2019

Aspiration hazard
Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen. As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|----------------------|-------|---------|-------|------|
| Quartz 14808-60-7 | A2 | Group 1 | Known | X |

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No information available

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of Wastes

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations

Contaminated packaging

Dispose of in accordance with federal, state and local regulations

Section 14: TRANSPORT INFORMATION

DOT

Not regulated

Safety Data Sheet

FORBO FRS885
Revision Number 1

Revision Date 03-May-2019
Supersedes Date: 03-May-2019

IATA Not regulated

IMDG Not regulated

Section 15: REGULATORY INFORMATION

Global Inventories

| | |
|------|------------|
| TSCA | Listed |
| DSL | Not Listed |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

United States of America

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | CAS No. |
|---------------|------------|
| Feldspar | 68476-25-5 |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|----|
| Acute Health Hazard | No |
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

SVHC: Substances of Very High Concern for Authorization:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

No information available

Key Literature References and Sources for Data

No information available

Revision Date 03-May-2019

Safety Data Sheet

FORBO FRS885
Revision Number 1

Revision Date 03-May-2019
Supersedes Date: 03-May-2019

Revision note Not applicable.

Training Advice No information available

Further information No information available

Disclaimer

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End of Safety Data Sheet