

SECTION 1: IDENTIFICATION**Product Identifier****Product Form:** Mixture**Product Name:** DFS-211 Silicated Defoamer Concentrate**Product Code:** 7317**Synonyms:** DFS-211 Detergent**Intended Use of the Product****Use of the Substance/Mixture:** Powerful defoamer to supplement detergent products. For professional use only.**Name, Address, and Telephone of the Responsible Party****Company**

Better Engineering Mfg., Inc.

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www.betterengineering.com**Emergency Telephone Number****Emergency number** : 1-800-535-5053 (INFOTRAC)**SECTION 2: HAZARDS IDENTIFICATION****Classification of the Substance or Mixture****Classification (GHS-US)**

Oral Toxicity 5 H303

Skin Irritant 3 H316

Eye Irritant 2B H320

Inhalation 5 H333

Label Elements**GHS-US Labeling****Hazard Pictograms (GHS-US)** : None required**Signal Word (GHS-US)** : None**Hazard Statements (GHS-US)** : H303 – May be harmful if swallowed
H316 – Causes mild skin irritation
H320 – Causes eye irritation
H333 – May be harmful if inhaled**Precautionary Statements (GHS-US)** : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 – Wash thoroughly after handling
P270 – Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P301+P312 – If swallowed, call a Poison Center or doctor/physician
P304+P340 – If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing
P304+P312 – If inhaled, call a Poison Center or doctor/physician
P305+P351+P338 – If in eyes, rinse cautiously with water for several minutes, remove contact lenses if present and easy to do. Continue rinsing.
P312 – Call a Poison Center for doctor/physician if you feel unwell
P330 – Rinse mouth

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Precautionary Statements (GHS-US) : P332+P313 – If skin irritation occurs, get medical advice/attention
P337+P313 – If eye irritation persists, get medical advice/attention
P501 – Dispose of contents/container in accordance with all local, regional, national, provincial, territorial and international regulations by a licensed disposal agent.

Other Hazards

Other Hazards Not Contributing to the Classification: None known

Other Hazards: Generally considered a non-irritant, does not have a significant risk, provided that the proper use, handling and storage precautions are exercised. However, prolonged exposure may cause mild irritation and redness.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

| Name | Product identifier | % (w/w) |
|--------------|--------------------|---------------|
| Polysiloxane | Proprietary | Not Regulated |

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Not likely to be a problem. If difficulty breathing remove to fresh air. If symptoms continue, seek medical advice.

Skin Contact: Wash with soap and water.

Eye Contact: Rinse eyes with water. Remove contact lenses and continue rinsing. If irritation continues, seek medical advice.

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician.

Note To Physicians: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Most Important Symptoms and Effects Both Acute and Delayed

Inhalation: None known.

Skin Contact: May cause irritation.

Eye Contact: Slight irritant.

Ingestion: Very low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

Chronic (Cancer) Information: Not listed by IARC or NTP as a carcinogen.

Teratology (Birth Defect) Information: Not classified as a teratogen.

Reproduction Information: Does not harm reproductive cells.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog. Use water to cool fire-exposed containers and to protect personnel.

Unsuitable Extinguishing Media: None known

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: None known

Reactivity: None known

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Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Wear appropriate and suitable protective clothing and breathing equipment for the situation. Follow NFPA Fire Protection Guidelines.

Hazardous Combustion Products: Oxides of carbon

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not allow product to spread into the environment. Do NOT breathe (dust, fumes). Do not get in eyes, on skin, or on clothing. No smoking. Avoid generating dust.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE)

Emergency Procedures: None known

For Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE)

Emergency Procedures: None known

Environmental Precautions: None known

Small Spill: Collect free material. Absorb remainder on inert absorbent. Wash area with plenty of water.

Large Spill: If possible, clean up spill area on a dry basis and then flush with plenty of water. Absorb liquid with vermiculite, floor absorbent or other absorbent material.

Methods and Material for Containment and Cleaning Up

For Containment: Avoid generation of dust during clean-up of spills.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely in accordance with all local, state, regional, national, provincial, territorial and international regulations. Minimize generation of dust.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Keep containers closed when not in use.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Avoid contact with eyes. Wear appropriate personal protective equipment. Do not eat, drink or smoke in areas where this material is used. Always wash hands and forearms thoroughly with soap and water after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in tightly closed containers in a cool dry area. Keep away from flame and strong oxidizing agents. Keep from freezing.

Incompatible Materials: None known

Special Rules on Packaging: None

Specific End Use(s)

Defoamer to supplement detergent products

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

None known

Exposure Controls

Appropriate Engineering Controls: None needed

Personal Protective Equipment: Neoprene gloves. Protective goggles.



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Hand Protection: Protective gloves.

Eye Protection: Chemical splash goggles.

Skin and Body Protection: Not normally needed.

Respiratory Protection: None normally needed.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

| | |
|--|------------------------------|
| Appearance | : Opaque, milky white liquid |
| Odor | : No fragrance added |
| Odor Threshold | : Not available |
| pH | : 7.0-7.6 |
| Relative Evaporation Rate (butylacetate=1) | : Not available |
| Melting Point | : Not applicable |
| Freezing Point | : Not available |
| Boiling Point | : N/A |
| Flash Point (Method: Closed Cup) | : Not available |
| Auto-ignition Temperature | : Not applicable |
| Decomposition Temperature | : Not available |
| Flammability (solid, gas) | : Not flammable |
| Lower Flammable Limit | : N/A |
| Upper Flammable Limit | : N/A |

| | |
|---|-----------------|
| Vapor Pressure | : Not available |
| Relative Vapor Density | : (Air=1): >1 |
| Specific Gravity | : .993 |
| Solubility in Water | : Emulsifies |
| Partition coefficient: n-octanol/water | : Not available |
| Viscosity | : Not available |
| Explosion Data – Sensitivity to Mechanical Impact | : Not available |
| Explosion Data – Sensitivity to Static Discharge | : Not available |

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known.

Chemical Stability: Stable

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: None known.

Incompatible Materials: None known.

Hazardous Decomposition Products: Oxides of carbon. Smoke may be acrid and the fumes may be irritating.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: No information available

Respiratory or Skin Sensitization: No information available

Germ Cell Mutagenicity: Not mutagenic

Teratogenicity: Not a teratogen

Carcinogenicity: Not classified as a carcinogen

Specific Target Organ Toxicity (Repeated Exposure): No information available

Reproductive Toxicity: Not expected to affect human reproduction.

Specific Target Organ Toxicity (Single Exposure): No information available

Aspiration Hazard: No information available

Symptoms/Injuries After Inhalation: Not likely to be a problem.

Symptoms/Injuries After Skin Contact: Direct Non-irritating.

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Symptoms/Injuries After Eye Contact: Direct contact may cause irritation.

Symptoms/Injuries After Ingestion: May cause nausea.

Subchronic: All components of this product are listed on the U.S. TSCA Inventory or exemption has been granted in accordance with 40 CFR 723.50.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological Information: No information available

Chemical Fate Information: Readily biodegradable

Mobility in Soil: No information available

Other Adverse Effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material and empty containers in accordance with all local, state, regional, national, provincial, territorial and international regulations by a licensed disposal agent.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Not regulated

14.2 In Accordance with IMDG

Not regulated

14.3 In Accordance with IATA

Not regulated

14.4 In Accordance with TDG

Not regulated

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

| | |
|--------------------------------------|--|
| OSHA | Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1200 There is no calculable reportable quantity for this product. Hazcom Standard |
| CERCLA: SARA HAZARD CATEGORY: | Section 313: Not regulated |

US State Regulations

| | |
|------------------------------------|---------------------------|
| No information available. | |
| Volatile Organic Compounds: | No information available. |

Canadian Regulations

| | |
|---|--------------------------|
| WHMIS Classification | Not regulated |
| Canadian Environmental Protection Act (CEPA) | No information available |
| EINECS: | No information available |

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

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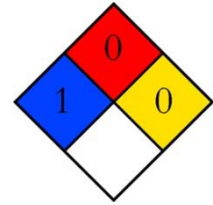
Other Information: Compliant with OSHA's new GHS safety data sheet (SDS). *Information in this Safety Data Sheet (SDS) is based on sources other than direct test data and is given in good faith. No warranty is expressed or implied. We believe that the information is current as of the date of this SDS. The use of this information, the conditions, the methods of handling, storage, use and disposal of the product are not within the control of the manufacturer and distributor, therefore it is the user's responsibility and obligation to determine the conditions of the safe use of this product and to ensure that its activities comply with all laws and regulations.*

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NFPA Health Hazard : 1 –Can cause significant irritation.
NFPA Fire Hazard : 0 – Will not burn.
NFPA Reactivity : 0 -Stable.



HMIS III Rating

Health : 1 Slight Hazard: Slightly Toxic – May cause slight irritation
Flammability : 0 Minimal Hazard: Will not burn under normal conditions
Reactivity : 0 Minimal Hazard: Normally Stable; does not react with water
Protective Equipment : B – Wear protective goggles and impervious gloves

Party Responsible for the Preparation of This Document

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS