# Safety Data Sheet

## BOSS® 333 Gap Filling Foam Straw Grade

## Section 1. Identification

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| Product Identifier | BOSS® 333 Gap Filling Foam Straw Grade |
| Synonyms | 33316; 33324 |
| Manufacturer Stock Numbers | 142212; 142302 |
| Recommended use | Refer to Technical Information |
| Uses advised against | Refer to Technical Information |

Manufacturer Contact

Address

Soudal
350 Ring Road
Elizabethtown, KY, 42701
USA

| Phone | Emergency Phone | Fax |
|---|---|---|
| (270) 769-3385 | (800) 424-9300<br>CHEMTREC | (270) 765-2412 |

## Section 2. Hazards Identification

Classification

CARCINOGENICITY - Category 2
EYE DAMAGE/IRRITATION - Category 2A
FLAMMABLE AEROSOLS - Category 1
GASES UNDER PRESSURE - Liquefied gas
HAZARDOUS TO THE AQUATIC ENVIRONMENT - LONG-TERM HAZARD - Category 4
SENSITIZATION - RESPIRATORY - Category 1
SENSITIZATION - SKIN - Category 1
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3
TOXIC TO REPRODUCTION - EFFECTS ON OR VIA LACTATION

**Signal Word**

Danger

**Pictogram**



**Hazard Statements**

Causes serious eye irritation
Causes skin irritation
Contains gas under pressure; may explode if heated
Extremely flammable aerosol
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause damage to organs through prolonged or repeated exposure.
May cause harm to breast-fed children
May cause long lasting harmful effects to aquatic life
May cause respiratory irritation.
Suspected of causing cancer.

**Precautionary Statements**

**Response**

Call a poison center or doctor if you feel unwell.
Get medical advice/attention if you feel unwell.
If experiencing respiratory symptoms: Call a poison center/doctor.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If on skin: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see label)
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.

**Prevention**

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Avoid contact during pregnancy/while nursing.
Avoid release to the environment
Contaminated work clothing must not be allowed out of the workplace.
Do not eat, drink or smoke when using this product.
Do not handle until all safety precautions have been read and understood.
Do not spray on an open flame or other ignition source.
Keep away from heat.
Obtain special instructions before use.
Pressurized container: Do not pierce or burn, even after use.
Use only outdoors or in a well-ventilated area.
Wash hands thoroughly after handling.
Wear eye protection/face protection.

**Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.
Protect from sunlight. Store in a well-ventilated place.

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| | Store in a well-ventilated place. Keep container tightly closed.<br>Store locked up. |
| Disposal | Dispose of contents/container in accordance with local, state and federal regulations. |
| Ingredients of unknown toxicity | 0% |
| Hazards not Otherwise Classified | |
| Other Hazards | Gas/vapor spreads at floor level: Ignition hazard. |

## Section 3. Ingredients

| CAS | Ingredient Name | Weight % |
|---|---|---|
| 75-28-5 | Isobutane | 5% - 15% |
| 115-10-6 | Dimethyl ether | 5% - 10% |
| 74-98-6 | Propane | 5% - 10% |
| 9016-87-9 | Polymeric diphenylmethane diisocyanate | 25% - 35% |
| 63449-39-8 | Chlorinated paraffin waxes and hydrocarbon waxes | 20% - 30% |
| 25791-96-2 | Glyceryl polypropylene glycol triether | 10% - 20% |
| 85535-85-9 | alkanes, C14-17, chloro | 1% - 5% |

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First-Aid Measures

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| Inhalation | Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. |
| Skin | Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. |
| Ingestion | Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. |
| Eyes | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician. |
| Most Important Symptoms/Effects | Acute<br>Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness.<br><br>Delayed<br>Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure: thyroid gland, liver. |

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| Indication of any immediate medical attention and special treatment needed | Treat symptomatically and supportively. |

## Section 5. Fire Fighting Measures

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| Suitable Extinguishing Media | Small fires: Quick-acting ABC-powder extinguisher, Quick-acting BC-powder extinguisher. |
| Unsuitable Extinguishing Media | Small fires: Quick-acting CO2 extinguisher, Water (water can be used to control jet flame), foam. In case of major fire and large quantities: Water (water can be used to control jet flame), foam. |
| Special Hazards Arising from the Chemical | Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Pressurized container: Do not pierce or burn, even after use. May polymerize with evolution of heat. |
| Hazardous Combustion Products | On burning: Irritating and toxic gases or fumes may be released during a fire: oxides of carbon, phosphorus, hydrogen chloride, nitrous vapors. On heating: May release toxic gases and combustible. gases: hydrogen cyanide. |
| Advice for firefighters | Eliminate all sources of ignition. Do not spray on an open flame or other ignition sources. If safe to do so, move undamaged containers from the fire area. Keep unnecessary people away, isolate hazard area and deny entry. Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Let the fire burn. Stay away from the ends of tanks. Prevent entry into sewers, drains, ditches, underground or confined spaces and waterways. Avoid inhalation of material or combustion by-products. |
| Special Protective Equipment and Precautions for Firefighters | Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure. |

## Section 6. Accidental Release Measures

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| Personal Precautions, Protective Equipment and Emergency Procedures | Wear personal protective clothing and equipment, see Section 8. |
| Methods and Materials for Containment and Cleaning Up | Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Reduce vapors with water spray. Small spills: Absorb spill with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. |
| Environmental Precautions | Avoid release to the environment. |

## Section 7. Handling and Storage

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| Precautions for Safe Handling | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated |

area. Do not spray on an open flame or other ignition sources. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating /lighting equipment. Take action to prevent static discharges. Do not breathe vapor or spray. Use non-sparking tools. Contaminated work clothing must not be allowed out of the workplace. Do not eat, drink, or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

**Conditions for Safe Storage, Including any Incompatibilities**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Incompatible Materials**

strong acids, strong bases, amines

## Section 8. Exposure Controls/Personal Protection

**Occupational Exposure Limits**

| Ingredient Name | ACGIH TLV | OSHA PEL | STEL |
|---|---|---|---|
| Isobutane | 1000 ppm | N/A | 1000 ppm |
| Dimethyl ether | N/A | 400 ppm | N/A |
| Propane | 1000 ppm TWA | 1000 ppm PEL | N/A |
| Polymeric diphenylmethane diisocyanate | 0.005 ppm | 0.02 mg/m≈ | N/A |
| Chlorinated paraffin waxes and hydrocarbon waxes | N/A | N/A | N/A |
| Glyceryl polypropylene glycol triether | N/A | N/A | N/A |
| alkanes, C14-17, chloro | N/A | N/A | N/A |

**Personal Protective Equipment**

Goggles, Gloves

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

There are no biological limit values for any of this product's components.

**Engineering Controls**

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

Eye/face protection
Wear splash resistant safety goggles with a faceshield.

Skin Protection
Wear fire/flame resistant/retardant clothing. Refer to NFPA 2112, Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire and NFPA 2113, Standard on the Selection, Use, Care and Maintenance of Flame-Resistant Garments for Protection of Industrial Personnel Against Short-duration Thermal Exposures from Fire (2015).

Respiratory Protection
If airborne contaminant levels may exceed recommended exposure limits,

NIOSH approved respiratory protection appropriate for employee exposure levels is recommended. Consult with a health and safety professional for specific respirators appropriate for your use.

Glove Recommendations
Wear appropriate chemical resistant gloves.

## Section 9. Physical and Chemical Properties

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| Physical State | Aerosol |
| Color | Variable |
| Odor | Characteristic |
| Odor Threshold | Not available |
| Solubility | Organic solvents |
| Partition coefficient Water/n-octanol | Not available |
| VOC% | 18% (by wt)<br>175 g/L |
| Viscosity | No data available |
| Specific Gravity | 0.95 at 20C |
| Density lbs/Gal | N/A |
| Pounds per Cubic Foot | N/A |
| Flash Point | Not available |
| FP Method | N/A |
| pH | Not available |
| Melting Point | Not available |
| Boiling Point | Not available |
| Boiling Range | N/A |
| LEL | N/A |
| UEL | N/A |
| Evaporation Rate | Not available |
| Flammability | Extremely flammable aerosol |
| Decomposition Temperature | Not available |
| Auto-ignition Temperature | Not available |
| Vapor Pressure | Not available |
| Vapor Density | >1 (relative) |

Note — The above information is not intended for use in preparing product specifications. Contact Soudal before writing specifications.

## Section 10. Stability and Reactivity

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| Reactivity | Reacts violently with acids bases. May be ignited by heat, sparks or flames. Gas/vapor spreads at floor level: Ignition hazard. |
| Chemical Stability | Stable under normal conditions of storage and handling. |
| Possibility of Hazardous Reactions | May polymerize: strong bases, amines. |
| Conditions to Avoid | Keep away from heat, sparks and naked flames. Keep away from ignition sources - No smoking. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Avoid contact with incompatible materials. |
| Incompatible Materials | strong acids, strong bases, amines |
| Hazardous decomposition products | On heating. May release toxic gases, combustible gases, vapors: hydrogen cyanide. On burning: Irritating and toxic gases or fumes may be released during a fire: oxides of carbon, phosphorus, hydrogen chloride, nitrous vapors. |

## Section 11. Toxicological Information

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| Information on Likely Routes of Exposure | Inhalation<br>May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.<br><br>Skin Contact<br>Causes skin irritation. May cause allergic skin reaction.<br><br>Eye Contact<br>Causes serious eye irritation. May cause redness, pain, and tearing.<br><br>Ingestion<br>No information on significant adverse effects. |
| Component Analysis - LD50/LC50 | The components of this material have been reviewed in various sources and the following selected endpoints are published:<br>Polymethylene polyphenylene isocyanate (9016-87-9)<br>Oral LD50 Rat 49 g/kg<br>Dermal LD50 Rabbit >9.4 g/kg<br>Inhalation LC50 Rat 11 mg/L 4 h<br><br>Chlorinated paraffin waxes and hydrocarbon waxes (63449-39-8)<br>Oral LD50 Rat >21500 µL/kg<br><br>Glyceryl polypropylene glycol triether (25791-96-2)<br>Oral LD50 Rat 2830 µL/kg<br>Dermal LD50 Rabbit >20 mL/kg<br><br>Isobutane (75-28-5)<br>Inhalation LC50 Rat 658 mg/L 4 h<br><br>Dimethyl ether (115-10-6)<br>Inhalation LC50 Rat 164000 ppm 4 h<br><br>2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)<br>Oral LD50 Rat 1500 mg/kg |

Dermal LD50 Rabbit >5000 mg/kg (no deaths occurred )
Inhalation LC50 Rat >5.05 mg/L 4 h

Propane (74-98-6)
Inhalation LC50 Rat >800000 ppm 15 min

Alkanes, C14-17, chloro (85535-85-9)
Oral LD50 Rat 2000 mg/kg

**Acute and Chronic Toxicity**

Immediate Effects
Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness.

Delayed Effects
Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure: thyroid gland, liver.

Irritation/Corrosivity Data
eye irritation, skin irritation, respiratory tract irritation

Respiratory Sensitization
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Dermal Sensitization
May cause an allergic skin reaction

Germ Cell Mutagenicity
No information available for the product.

Tumorigenic Data
No information available for the product.

Reproductive Toxicity
No information available for the product.

Specific Target Organ Toxicity - Single Exposure
No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure
liver, thyroid gland

Aspiration hazard
Not expected to be an aspiration hazard.

Medical Conditions Aggravated by Exposure
No information available for the product.

**Product Toxicity Data**

Acute Toxicity Estimate
Dermal > 2000 mg/kg
Oral > 2000 mg/kg

**Component Carcinogenicity**

Polymethylene polyphenylene isocyanate 9016-87-9
IARC: Supplement 7 [1987] ; Monograph 19 [1979] (Group 3 (not classifiable))

DFG: Category 4 (no significant contribution to human cancer )

Chlorinated paraffin waxes and hydrocarbon waxes 63449-39-8
IARC: Monograph 48 [1990] (Group 2B (possibly carcinogenic to humans))
DFG: Category 3B (could be carcinogenic for man )
OSHA: Present

Suspected of causing cancer.

## Section 12. Ecological Information

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| Ecotoxicity | May cause long-term adverse effects in the aquatic environment. |
| Component Analysis - Aquatic Toxicity | Chlorinated paraffin waxes and hydrocarbon waxes (63449-39-8)<br>Fish:<br>LC50 96 h Lepomis macrochirus >300 mg/L [static ]<br>LC50 96 h Oncorhynchus mykiss >0.0109 mg/L [flow-through ]<br>LC50 96 h Oncorhynchus mykiss 94.5 - 271 mg/L [static ]<br>LC50 96 h Lepomis macrochirus >0.1 mg/L [flow-through ]<br>LC50 96 h Pimephales promelas >100 mg/L [static ] |
| Persistence and Degradability | Not readily biodegradable (according to OECD criteria). |
| Bioaccumulative Potential | No information available for the product. |
| Mobility in Soil | No information available for the product. |
| Bioconcentration | No information available for the product. |
| Other Toxicity | No additional information available for the product. |

## Section 13. Disposal

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| Disposal Methods | Dispose of contents/container in accordance with local/regional/national /international regulations. |
| Component Waste Numbers | The U.S. EPA has not published waste numbers for this product's components. |

## Section 14. Transport Information

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| UN Number | 1950 |
| UN Proper Shipping Name | AEROSOLS |
| DOT Classification | Hazard Class 2.1 |
| Packing Group | 2.1 |
| IATA Information | Shipping Name: AEROSOLS, FLAMMABLE<br>Hazard Class: 2.1<br>UN#: UN1950<br>Required Label(s): 2.1<br>Marine pollutant |
| ICAO Information | Shipping Name: AEROSOLS, FLAMMABLE<br>Hazard Class: 2.1 |

UN#: UN1950
Required Label(s): 2.1
Marine pollutant

**IMDG Information**

Shipping Name: AEROSOLS, FLAMMABLE
Hazard Class: 2
UN#: UN1950
Required Label(s): 2
Marine pollutant

**International Bulk Chemical Code**

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.
Polymethylene polyphenylene isocyanate (9016-87-9)
IBC Code: Category Y
Glyceryl polypropylene glycol triether (25791-96-2)
IBC Code: Category Z
Alkanes, C14-17, chloro (85535-85-9)
IBC Code: Category X (with >=50% Chlorine, and <1% C13 or shorter chains)

## Section 15. Regulatory Information

**U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.
Polymethylene polyphenylene isocyanate (9016-87-9)
SARA 313: 1 % de minimis concentration
Alkanes, C14-17, chloro (85535-85-9)
TSCA 12b: Section 5 , 1 % de minimus concentration EPA: P-12-0453

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories
Flammable; Gas Under Pressure; Carcinogenicity; Reproductive Toxicity; Skin Corrosion/Irritation; Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:
Polymethylene polyphenylene isocyanate (9016-87-9)
NJ

Chlorinated paraffin waxes and hydrocarbon waxes (63449-39-8)
MA

Isobutane (75-28-5)
MA, NJ, PA

Dimethyl ether (115-10-6)
MA, MN, NJ, PA

Propane (74-98-6)
MA, MN, NJ, PA

| | |
|---|---|
| California Safe Drinking Water and Toxic Enforcement Act (Proposition 65) | Not listed under California Proposition 65. |

## Section 16. Other Information

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| Revision Date | 11/14/2019 |
| HMIS and NFPA Rating | HMIS<br>Health: 2*<br>Fire: 3<br>Reactivity: 0<br><br>NFPA<br>Health: 2<br>Fire: 3<br>Reactivity: 0<br><br>Hazard Scale:<br>0 = Minimal<br>1 = Slight<br>2 = Moderate<br>3 = Serious<br>4 = Severe<br>* = Chronic hazard |
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