



# Safety Data Sheet

## BOSS® 312 100% Silicone HVAC/R

### Section 1. Identification

Product Identifier BOSS® 312 100% Silicone HVAC/R  
Synonyms 31202; 31201; 31200  
Manufacturer Stock Numbers 03932CL10; 03932WH10; 03932AL10

Recommended use Refer to Technical Information  
Uses advised against Refer to Technical Information

#### Manufacturer Contact

Address Soudal Accumetric  
350 Ring Road  
Elizabethtown, KY, 42701  
USA

Phone  
(270) 769-3385

Emergency Phone  
(800) 424-9300  
CHEMTREC

Fax  
(270) 765-2412

### Section 2. Hazards Identification

Classification N/A  
Signal Word  
Pictogram  
Hazard Statements N/A  
Precautionary Statements  
Response N/A  
Prevention Use only outdoors or in a well-ventilated area.  
Storage N/A  
Disposal N/A

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

GHS Classification Not a hazardous substance or mixture.

GHS Label Element Not a hazardous substance or mixture.

Other hazards None known

### Section 3. Ingredients

CAS	Ingredient Name	Weight %
64742-46-7	Distillates (petroleum), hydrotreated middle	5% - 10%
7631-86-9	Amorphous silica	5% - 10%

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

### Section 4. First-Aid Measures

**Eye Contact** Immediately flush with water for 15 minutes. Seek medical attention.

**Skin Contact** Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

**Inhalation** Material is not likely to present an inhalation hazard at ambient conditions. If material is heated or vapor are generated, care should be taken to prevent inhalation. In case of exposure to vapor, move to fresh air.

**Ingestion** No first aid should be needed.

**Comments** Treat according to person's condition and specifics of exposure.

### Section 5. Fire Fighting Measures

**Suitable Extinguishing Media** On large fires use dry chemical, foam, or water spray. On small fires use carbon dioxide, dry chemical or water spray. Water can be used to cool fire exposed containers.

**Unsuitable Extinguishing Media** None known

**Auto-ignition Temperature** Not determined

**Flammability Limits in Air** Not determined

**Special Fire Fighting Procedures** Self-contained breathing apparatus and protective clothing should be worn when fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

**Unusual Fire or Explosion Hazards** None known

**Hazardous Decomposition Products** Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products:  
Carbon oxides and traces of incompletely burned carbon compounds

Formaldehyde  
Silicon dioxide

Depending on color, hazardous decomposition products may also include:

Hydrogen  
Nitrogen oxides  
Metal oxides  
Sulfur oxides

## Section 6. Accidental Release Measures

**Steps to be taken in case of spill or release** Observe all personal protection equipment recommendations in Sections 5 and 8. Wipe or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

**Note** See Section 8 for information about personal protective equipment for spills. Contact Accumetric, LLC if additional information is required.

## Section 7. Handling and Storage

**Storage** Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture. This material in its finely divided form presents an explosion hazard. Follow NFPA 654 (for chemical dusts) or 484 (for metal dusts) as appropriate for managing dust hazards to minimize secondary explosion potential.

**Handling** Use adequate ventilation. Product evolves acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact. Keep container closed. Do not take internally. Avoid breathing vapor.

## Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Distillates (petroleum), hydrotreated middle	5 mg/m3	5 mg/m3	10 mg/m3
	Amorphous silica	10 mg/m3	6 mg/m3	Not Est.
Personal Protective Equipment	Goggles, Gloves			
Component Exposure Limits - Almond only	Component Name: Dimethylsiloxane, trimethoxysilyl-terminated CAS Number: PMN871176			

Exposure Limits: See methyl alcohol comments.

Component Name: Aluminum

CAS Number: 7429-90-5

Exposure Limits: OSHA PEL (final rule): TWA 15mg/m3 total dust, 5 mg/m3 respirable dust. ACGIH TLV: TWA 10mg/m3

Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm.

Component Exposure Limits

Component Name: Ethyltriacetoxysilane

CAS Number: 17689-77-9

Exposure Limits: See acetic acid comments

Component Name: Methyltriacetoxysilane

CAS Number: 4253-34-3

Exposure Limits: See acetic acid comments

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

Component Exposure Limits - Aluminum only

Component Name: Aluminum

CAS Number: 7429-90-5

Exposure Limits: OSHA PEL (final rule): TWA 15mg/m3 total dust, 5 mg/m3 respirable dust. ACGIH TLV: TWA 10mg/m3

Engineering Controls

Local Ventilation: Recommended

General Ventilation: Recommended

Eye Protection

Use proper protection - safety glasses as a minimum.

Skin Protection

Wash at mealtimes and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Suitable Gloves:

Handle in accordance with good industrial hygiene and safety practices.

Inhalation

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator

Respiratory protection is not needed under ambient conditions. If vapor is generated when material is heated or handled, the following is advised. General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Personal Protective Equipment for Spills

Eyes: Use full face respirator.

Skin: Wash at mealtimes and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Inhalation/Suitable Respirator: Respiratory protection recommended. Follow

OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Precautionary Measures** Avoid eye contact. Avoid skin contact. Avoid breathing vapor, mist, dust or fumes. Keep container closed. Do not take internally. Use reasonable care.

**Comment** Product evolves acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid within exposure guidelines or use respiratory protection.

When heated to temperatures above 150C (300F) in the presence of air, product can form formaldehyde vapors. Physical and health hazard information is readily available on the Material Safety Data Sheet. When heated to temperatures above 150C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

**Note** These precautions are for room temperature handling. Use at elevated temperatures or aerosol/spray applications may require added precautions.

## Section 9. Physical and Chemical Properties

Physical State	Paste
Color	Refer to product label
Odor	Acetic Acid Odor
Odor Threshold	N/A
Solubility	Not Determined
Partition coefficient Water/n-octanol	N/A
VOC%	23 g/L
Viscosity	Not Determined
Specific Gravity	1.032
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	Not Applicable
FP Method	N/A
Ph	Not Determined
Melting Point	Not Determined
Boiling Point	Not Determined

Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	Not Determined
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	Not Determined
Vapor Density	Not Determined

## Section 10. Stability and Reactivity

Materials to Avoid / Incompatibility	Oxidizing material can cause a reaction. Water, moisture or humid air can cause hazardous vapors to form as described in Section 8.
Conditions to Avoid	None known
Hazardous polymerization	Will not occur
Chemical Stability	Stable

## Section 11. Toxicological Information

Special Hazard Information on Components No known applicable information.

## Section 12. Ecological Information

Fate and Effects in Waste Water Treatment Plants	Complete information is not yet available.
Environmental Effects	Complete information is not yet available.
Environmental Fate and Distribution	Complete information is not yet available.

## Section 13. Disposal

Waste Disposal Method We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

This product is not known to be regulated under RCRA regulations. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all federal, local and state laws.

RCRA Hazard Class (40 CFR 261) When a decision is made to discard this material, as received, is it classified as a hazardous waste? NO

State or local laws may impose additional regulatory requirements regarding disposal.

## Section 14. Transport Information

UN Number N/A  
UN Proper Shipping Name Not regulated  
DOT Classification Not regulated  
Packing Group Not regulated  
Air Shipment (IATA) Not subject to IATA regulations.  
Ocean Shipment (IMDG) Not subject to IMDG code.

## Section 15. Regulatory Information

The contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

SARA Title III Section 302 Extremely Hazardous Substances None

SARA Title III Section 304 CERCLA Substances dangereuses None

SARA Title III Section 312 Hazard Class Acute: Yes  
Chronic: Yes (Aluminum and Almond only, all other colors have no known Chronic effects)  
Fire: No  
Pressure: No  
Reactive: No

California Proposition 65 This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm: None known

Massachusetts Silica, amorphous (7631-86-9)

Depending on color, may also contain:  
Alumina hydrate (21645-51-2)  
Aluminum (7429-90-5)  
Barium sulfate (7727-43-7)  
Carbon black (1333-86-4)  
Iron oxide (1309-37-1)  
Titanium dioxide (13463-67-7)

New Jersey Dimethyl siloxane, hydroxy-terminated (70131-67-8)  
Ethyltriacetoxysilane (17689-77-9)  
Hydrotreated middle petroleum distillates (64742-46-7)  
Methyltriacetoxysilane (4253-34-3)

Silica, amorphous (7631-86-9)

Depending on color, may also contain:

Alumina hydrate (21645-51-2)

Aluminum (7429-90-5)

Antimony chromium manganese titanium brown rutile (6991-68-0)

Barium sulfate (7727-43-7)

Black iron oxide (1317-61-9)

Carbon black (1333-86-4)

Dimethyl siloxane, trimethylsilyl-terminated (PMN871176)

Iron hydroxide oxide (20344-49-4)

Iron oxide (1309-37-1)

Magnesium ferrite (12068-86-9)

Mineral Oil (8042-47-5)

Polydimethylsiloxane (63148-62-9)

Tetrabenzo-5,10,15,20-diazaphorphyrinephthalocyanine [Pigment blue 15] (57455-37-5)

Titanium dioxide (13463-67-7)

Pennsylvania

Dimethyl siloxane, hydroxy-terminated (70131-67-8)

Hydrotreated middle petroleum distillates (64742-46-7)

Silica, amorphous (7631-86-9)

Depending on color, may also contain:

Alumina hydrate (21645-51-2)

Aluminum (7429-90-5)

Antimony chromium manganese titanium brown rutile (6991-68-0)

Barium sulfate (7727-43-7)

Black iron oxide (1317-61-9)

Carbon black (1333-86-4)

C.I. Pigment Blue 29 (57455-37-5)

Dimethyl siloxane, trimethylsilyl-terminated (PMN871176)

Iron hydroxide oxide (20344-49-4)

Iron oxide (1309-37-1)

Iron oxide (1332-37-2)

Magnesium ferrite (12068-86-9)

Mineral Oil (8042-47-5)

Polydimethylsiloxane (63148-62-9)

Tetrabenzo-5,10,15,20-diazaphorphyrinephthalocyanine [Pigment blue 15] (57455-37-5)

Titanium dioxide (13463-67-7)

Yellow iron oxide (51274-00-1)

## Section 16. Other Information

Revision Date

11/4/2015

Disclaimer

The data contained herein is based upon information that Soudal Accumetric believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.