This Safety Data Sheet packet contains the documents for the products listed below:

BOSS® 293 Epoxy Steel - Resin (Part A)
BOSS® 293 Steel Epoxy - Hardener (Part B)

The product listed has two separate components; please confirm that you have the SDS for both parts before use.

Safety Data Sheet

BOSS® 293 Epoxy Steel - Resin (Part A)

Section 1. Identification

Product Identifier	BOSS® 293 Epoxy Steel - Resin (Part A)
Synonyms	29310
Manufacturer Stock Numbers	04241AL01A; 04241AL10
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	Emergency Phone	Fax
(270) 769-3385	(800) 424-9300 CHEMTREC	(270) 765-2412

Section 2. Hazards Identification

Classification	ACUTE TOXICITY - INHALATION - Category 3 GERM CELL MUTAGENICITY - Category 1B
Signal Word	Danger
Pictogram	

Hazard Statements	May cause genetic defects. Toxic if inhaled
Precautionary Statements	
Response	Call a poison center or doctor. If exposed or concerned: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Obtain special instructions before use.
Prevention	Avoid breathing vapors. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national /international regulations.
Ingredients of unknown toxicity	97.79%
Hazards not Otherwise Classified	
Additional Information	None known

Section 3. Ingredients

CAS	Ingredient Name	Weight %
64742-94-5	Solvent naphtha (petroleum), heavy aromatic	1% - 5%
1309-37-1	Iron oxide	10% - 20%
	Other components below reportable levels	30% - 40%
1317-65-3	Calcium carbonate	40% - 50%
546-93-0	Magnesium carbonate	5% - 10%

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

Section 4. First-Aid Measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Most important symptoms/effects, acute and delayed	Coughing
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable Extinguishing Media	Do not use water jet as an extinguisher, as this will spread the fire.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

Section 7. Handling and Storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid inhalation of vapors and spray mists. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Solvent naphtha (petroleum), heavy aromatic	Not Established	Not Established	N/A
Iron oxide	5 mg/m3	10 mg/m3	N/A
Other components below reportable levels	N/A	N/A	N/A
Calcium carbonate	10 mg/m3	5 mg/m3	N/A
Magnesium carbonate	N/A	N/A	N/A

Personal Protective Equipment: Goggles, Gloves

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Calcium carbonate (1317-65-3)
PEL 5 mg/m3 Respirable fraction.
15 mg/m3 Total dust.

Heavy aromatic naphtha (64742-94-5)
PEL 400 mg/m3 100 ppm

Iron oxide (1309-37-1)
PEL 10 mg/m3 Fume.

Magnesium carbonate (546-93-3)
PEL 5 mg/m3 Respirable fraction.
15 mg/m3 Total dust.

US. ACGIH Threshold Limit Values
Heavy aromatic naphtha (64742-94-5)
TWA 200 mg/m3 Non-aerosol.

Iron oxide (1309-37-1)
TWA 5 mg/m3 Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards
Calcium carbonate (1317-65-3)
TWA 5 mg/m3 Respirable.

	10 mg/m3 Total Iron oxide (1309-37-1) TWA 5 mg/m3 Dust and fume. Magnesium carbonate (546-93-0) TWA 5 mg/m3 Respirable.
Biological limit value	There are no biological limit values for any of this product's components.
Exposure guidelines	US ACGIH Threshold Limit Values: Skin designation Heavy aromatic naphtha (64742-94-5) Can be absorbed through the skin.
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment	Eye/face protection If contact is likely, safety glasses with side shields are recommended. Hand protection For prolonged or repeated skin contact use suitable protective gloves. Skin protection Wear suitable protective clothing. Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Thermal hazards Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9. Physical and Chemical Properties

Physical State	Liquid paste
Color	Dark gray or black
Odor	Not available
Odor Threshold	Not available
Solubility	Not available
Partition coefficient Water/n-octanol	Not available
VOC%	0.00139972% estimated
Viscosity	Not available
Specific Gravity	1.8
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	Not available

FP Method	Not available
Ph	Not available
Melting Point	1049F 565C estimated
Boiling Point	Not available
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	Not available
Flammability	Not available
Decomposition Temperature	Not available
Auto-ignition Temperature	Not available
Vapor Pressure	0.000009 hPa estimated
Vapor Density	Not available

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

Section 10. Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Fluorine.
Hazardous decomposition products	No hazardous decomposition products are known.

Section 11. Toxicological Information

Information on likely routes of exposure	Inhalation Toxic if inhaled. Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation. Ingestion Expected to be a low ingestion hazard
Symptoms related to the physical, chemical and toxicological characteristics	Coughing

Information on toxicological effects

Acute toxicity
Toxic if inhaled.

Skin corrosion/irritation
Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation
Direct contact with eyes may cause temporary irritation.

Respiratory sensitization
Not a respiratory sensitizer.

Skin sensitization
This product is not expected to cause skin sensitization.

Germ cell mutagenicity
May cause genetic defects.

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall Evaluation of Carcinogenicity
iron oxide (CAS 1309-37-1) 3 Not classifiable as to carcinogenicity to humans.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Reproductive toxicity
This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure
Not classified.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Not an aspiration hazard.

Chronic effects
Prolonged inhalation may be harmful.

Section 12. Ecological Information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Heavy aromatic naphtha (64742-94-5)
Crustacea
EC50 Water flea (Daphnia pulex) 2.7 - 5.1 mg/l, 48 hours
Fish
LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss) 8.8 mg/l, 96 hours

	* Estimates for product may be based on additional component data not shown.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative Potential	No data available
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13. Disposal

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional /national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	Not regulated
DOT Classification	Not regulated
Packing Group	Not regulated

Section 15. Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)	Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous chemical No SARA 313 (TRI reporting) Not regulated.
Other federal regulations	Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Safe Drinking Water Act Not regulated
US state regulations	US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed. US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)) heavy aromatic naphtha (CAS 64742-94-5) US. Massachusetts RTK - Substance List Calcium carbonate (CAS 1317-65-3) iron oxide (CAS 1309-37-1) Magnesium carbonate (CAS 546-93-0) US. New Jersey Worker and Community Right-to-Know Act Calcium carbonate (CAS 1317-65-3) heavy aromatic naphtha (CAS 64742-94-5) iron oxide (CAS 1309-37-1) Magnesium carbonate (CAS 546-93-0) US. Pennsylvania Worker and Community Right-to-Know Law Calcium carbonate (CAS 1317-65-3) iron oxide (CAS 1309-37-1) US. Rhode Island RTK Not regulated. US. California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
Carbon Black (CAS 1333-86-4) Listed: February 21, 2003

Section 16. Other Information

Revision Date	12/8/2015
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.

Safety Data Sheet

BOSS® 293 Steel Epoxy - Hardener (Part B)

Section 1. Identification

Product Identifier	BOSS® 293 Steel Epoxy - Hardener (Part B)
Synonyms	29310
Manufacturer Stock Numbers	04241AL01B; 04241AL10
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	Emergency Phone	Fax
(270) 769-3385	(800) 424-9300 CHEMTREC	(270) 765-2412

Section 2. Hazards Identification

Classification	ACUTE TOXICITY - ORAL - Category 4 EYE DAMAGE/IRRITATION - Category 2A HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - LONG-TERM HAZARD - Category 2 SKIN CORROSION/IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2
Signal Word	Warning

Pictogram

Hazard Statements

Causes serious eye irritation
Causes skin irritation
Harmful if swallowed
Suspected of damaging fertility or the unborn child.
Toxic to aquatic life with long lasting effects
Very toxic to aquatic life

Precautionary Statements

Response

Collect spillage
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 on skin: Wash with plenty of water.
If skin irritation occurs: Get medical advice/attention.
If swallowed: Call a poison center/doctor if you feel unwell.
Obtain special instructions before use.
Rinse mouth.
Take off contaminated clothing and wash it before reuse.

Prevention

Avoid release to the environment
Do not eat, drink or smoke when using this product.
Do not handle until all safety precautions have been read and understood.
Obtain special instructions before use.
Wash thoroughly after handling.
Wear eye protection/face protection.
Wear protective gloves.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national /international regulations.

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

Supplemental information

92.68% of the mixture consists of component(s) of unknown acute oral toxicity.
59.43% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.
59.43% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

Section 3. Ingredients

CAS	Ingredient Name	Weight %

84852-15-3	4-Nonylphenol, mixed isomers	1% - 5%
112945-52-5	Amorphous fumed silica	1% - 5%
90-72-2	2,4,6-Tri(dimethylaminomethyl) phenol	1% - 5%
14807-96-6	Magnesium silicate	10% - 20%
	Other components below reportable levels	20% - 30%
7727-43-7	Barium Sulfate	30% - 40%
546-93-0	Magnesium carbonate	5% - 10%
1317-65-3	Calcium carbonate	5% - 10%

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

Section 4. First-Aid Measures

Inhalation	Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable Extinguishing Media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

Section 7. Handling and Storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
4-Nonylphenol, mixed isomers	N/A	N/A	N/A
Amorphous fumed silica	10 mg/m3	6 mg/m3	N/A
2,4,6-Tri(dimethylaminomethyl) phenol	N/A	N/A	N/A
Magnesium silicate	N/A	N/A	N/A
Other components below reportable levels	N/A	N/A	N/A

Barium Sulfate	10 mg/m3	5 mg/m3	N/A
Magnesium carbonate	N/A	N/A	N/A
Calcium carbonate	10 mg/m3	5 mg/m3	N/A

Personal Protective Equipment

Goggles, Gloves

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Barium sulfate (7727-43-7)
PEL 5 mg/m3 Respirable fraction, 15 mg/m3 Total dust.

Calcium carbonate (1317-65-3)
PEL 5 mg/m3 Respirable fraction, 15 mg/m3 Total dust.

Magnesium carbonate (546-93-0)
PEL 5 mg/m3 Respirable fraction, 15 mg/m3 Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)
Silica, amorphous fumed (112945-52-5)
TWA 0.8 mg/m3, 20 mppcf

Talc (14807-96-6)
TWA 0.3 mg/m3 Total dust, 0.1 mg/m3 Respirable, 20 mppcf, 2.4 mppcf Respirable.

US. ACGIH Threshold Limit Values
Barium sulfate (7727-43-7)
TWA 5 mg/m3 Inhalable fraction.

Talc (14807-96-6)
TWA 2 mg/m3 Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards
Barium sulfate (CAS TWA 5 mg/m3 Respirable.
7727-43-7)
10 mg/m3 Total

Calcium carbonate (1317-65-3)
TWA 5 mg/m3 Respirable, 10 mg/m3 Total

Magnesium carbonate (546-93-0)
TWA 5 mg/m3 Respirable, 10 mg/m3 Total

Silica, amorphous fumed (112945-52-5)
TWA 6 mg/m3

Talc (14807-96-6)
TWA 2 mg/m3 Respirable.

Biological limit value

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

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable

	level. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures, such as personal protective equipment	Eye/face protection Wear safety glasses with side shields (or goggles). Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Skin protection Wear appropriate chemical resistant clothing. Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Thermal hazards Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9. Physical and Chemical Properties

Physical State	Liquid. Paste
Color	Not available
Odor	Not available
Odor Threshold	Not available
Solubility	Not available
Partition coefficient Water/n-octanol	Not available
VOC%	2.44156731% estimated
Viscosity	Not available
Specific Gravity	1.87
Density lbs/Gal	15.56
Pounds per Cubic Foot	N/A
Flash Point	Not available
FP Method	N/A
Ph	Not available
Melting Point	1814F 990C estimated
Boiling Point	Not available
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	Not available
Flammability	Not applicable
Decomposition Temperature	Not available
Auto-ignition Temperature	Not available

Vapor Pressure	0.00001 hPa estimated
Vapor Density	Not availableNot available

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

Section 10. Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Aluminum. Phosphorus. Fluorine.
Hazardous decomposition products	No hazardous decomposition products are known.

Section 11. Toxicological Information

Information on likely routes of exposure	Inhalation Prolonged inhalation may be harmful. Skin contact Causes skin irritation. Eye contact Causes serious eye irritation. Ingestion Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Information on toxicological effects	Acute toxicity Harmful if swallowed. Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye irritation Causes serious eye irritation. Respiratory sensitization Not a respiratory sensitizer. Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall Evaluation of Carcinogenicity
Silica, amorphous fumed (CAS 112945-52-5)
3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Reproductive toxicity
Suspected of damaging fertility. Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure
Not classified.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Not an aspiration hazard.

Chronic effects
Prolonged inhalation may be harmful.

Toxicological information on components

Nonylphenol (CAS 84852-15-3)
Acute Dermal
LD50 Rabbit 2140 mg/kg
Acute Oral
LD50 Rat 1600 mg/kg

Silica, amorphous fumed (CAS 112945-52-5)
Acute Oral
LD50 Mouse > 15000 mg/kg
LD50 Rat > 22500 mg/kg

* Estimates for product may be based on additional component data not shown.

Section 12. Ecological Information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Ecological information on components

Barium sulfate (CAS 7727-43-7)
Aquatic - Crustacea
EC50 Tubificid worm (Tubifex tubifex) 28.61 - 38.03 mg/l, 48 hours

Nonylphenol (CAS 84852-15-3)

	Aquatic - Crustacea EC50 Clam (Mulinia lateralis) 0.0379 mg/l, 48 hours Aquatic - Fish LC50 Winter flounder (Pleuronectes americanus) 0.017 mg/l, 96 hours * Estimates for product may be based on additional component data not shown.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	Partition coefficient n-octanol / water (log Kow) Nonylphenol 5.71
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13. Disposal

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional /national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	Not regulated
DOT Classification	Not regulated
Packing Group	Not regulated

Section 15. Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Barium sulfate (CAS 7727-43-7) Listed.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
No

SARA 313 (TRI reporting)
Not regulated.

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
Nonylphenol (CAS 84852-15-3)
Talc (CAS 14807-96-6)

US. Massachusetts RTK - Substance List
Barium sulfate (CAS 7727-43-7)
Calcium carbonate (CAS 1317-65-3)
Magnesium carbonate (CAS 546-93-0)
Nonylphenol (CAS 84852-15-3)
Silica, amorphous fumed (CAS 112945-52-5)
Talc (CAS 14807-96-6)

US. New Jersey Worker and Community Right-to-Know Act
Barium sulfate (CAS 7727-43-7)
Calcium carbonate (CAS 1317-65-3)
Magnesium carbonate (CAS 546-93-0)

Talc (CAS 14807-96-6)

US. Pennsylvania Worker and Community Right-to-Know Law
Barium sulfate (CAS 7727-43-7)
Calcium carbonate (CAS 1317-65-3)
Nonylphenol (CAS 84852-15-3)
Silica, amorphous fumed (CAS 112945-52-5)
Talc (CAS 14807-96-6)

US. Rhode Island RTK
Not regulated.

US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Section 16. Other Information

Revision Date	12/8/2015
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.