

Terraset® Component A



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations and the Canadian Workplace Hazardous Materials Information System.

Revision Date: 03/01/2019 Date of Issue: 02/28/2018 Supersedes SDS Date: 02/28/2018 Version 3.0

Revision Impetus: Text and logo format changes.

SECTION 1: IDENTIFICATION

Product Identifier

Product Name: Terraset® Component A

Synonyms: One component of a two component Sodium Silicate based grout, Terraset® Component A Sodium Silicate and Terraset® Component B Hardener.

Intended Use of the Product

Chemical grout

Name, Address, and Telephone of the Responsible Party

USA:

Minova USA Inc.
150 Summer Court
Georgetown, KY 40324
T 502-863-6800

For SDS Requests:

Call 1-855-255-7422 or email sds.na@orica.com

www.minovaglobal.com

Emergency Telephone Number

Emergency number : For chemical emergencies (24 hour) involving transportation, spill, leak, release, fire or accidents **IN THE U.S. or CANADA CALL: CHEMTREC 1-800-424-9300, Minova CCN 14730.**

Canada:

Minova
576 Arvin Avenue
Stoney Creek, ON - Canada L8E 5P1
T 905-643-1166

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Skin Irrit. 2 H315

Eye Irrit. 2A H319

STOT SE 3 H335

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

Precautionary Statements (GHS-US)

: P261 - Avoid breathing dust/fume/mist/vapors/spray.

P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

P280 - Wear eye protection, protective gloves, protective clothing.

P302+P352 - If on skin: Wash with plenty of soap and water.

P304+P340 - If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash before reuse.

Other Hazards Causes serious eye irritation. May cause eye damage if not treated.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Sodium silicate	(CAS No) 1344-09-8	15 - 40	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335

A range of concentration as prescribed by the Controlled Products Regulations has been used where necessary, due to varying composition. Full text of H-phrases: see section 16.

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 if possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Keep at rest and in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact: Remove contaminated clothing. Rinse affected area with water for several minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Immediately call a doctor/physician.

Ingestion: Rinse mouth. Do NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head positioned between legs to avoid breathing in of vomit, rinse mouth and have victim drink plenty of water. Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects Both Acute and Delayed

General: Irritation can be serious and damage eyes, respiratory system and skin.

Inhalation: Causes irritation to the respiratory tract.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation. May cause eye damage if not treated.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Prolonged or repeated contact on the skin can lead to dermatitis.

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: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Incompatible with acids, salts, and alcohols which will cause the material to become solid.

Advice for Firefighters

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

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Firefighters should wear full protective gear.

Hazardous Combustion Products: Oxides of calcium and sodium. As in all fires toxic and noxious fumes.

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 get in eyes or on skin.

For Non-Emergency Personnel

Protective Equipment: Use appropriate Personal Protection Equipment (PPE).

Emergency Procedures: Evacuate danger area.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: In the event of a spill or leak of material dike and absorb material with inert material and scoop up material. As with all spills, minimize material entering water systems.

Environmental Precautions

Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Place in suitable container.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid spills and leaks. Never add material to this product unless instructed by Minova.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool place but do not allow material to freeze. Store away from direct sunlight or other heat sources which can reduce products usability and shelf-life.

Incompatible Materials: Incompatible with acids, salts, and alcohols which will cause the material to become solid.

Specific End Use(s)

Chemical grout component.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Safety glasses or chemical goggles as appropriate to prevent eye contact. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Safety glasses or chemical goggles as appropriate to prevent eye contact.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator whenever exposure may exceed established Occupational Exposure Limits.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	:	Liquid
Appearance	:	Semi-viscous clear to opaque liquid
Odor	:	Not applicable
Odor Threshold	:	Not applicable
pH	:	11.0 – 11.5
Relative Evaporation Rate (butyl acetate=1)	:	Not applicable

Melting Point	: Not applicable
Freezing Point	: < 0°C (32 °F)
Boiling Point	: >100°C (212 °F)
Flash Point	: Not applicable
Auto-ignition Temperature	: Not applicable
Decomposition Temperature	: Not applicable
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: Not applicable
Upper Flammable Limit	: Not applicable
Vapor Pressure	: Not applicable
Relative Vapor Density at 20 °C	: Not applicable
Relative Density	: Not applicable
Specific Gravity	: Not applicable
Solubility	: Soluble in water
Partition coefficient: n-octanol/water	: Not applicable
Viscosity	: Not applicable
Explosion Data – Sensitivity to Mechanical Impact	: Not applicable
Explosion Data – Sensitivity to Static Discharge	: Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Terraset® Component A Sodium Silicate reacts with Terraset® Component B Hardener to form a solid which generates methanol as a by-product of the reaction as well as the parent acids of the dialkyl esters consisting of adipic, glutaric and succinic acids. Methanol has an OSHA/ACGIH TWA of 200 ppm and a STEL of 250 ppm. Methanol can cause irritation to the eyes, skin and respiratory system and may cause dizziness, nausea and other central nervous system effects depending on its concentration.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous reactions will not occur.

Conditions to Avoid: Use of product in extremely high or low temperatures will affect consistency and cure times.

Incompatible Materials: Incompatible with acids, salts, and alcohols which will cause the material to become solid. Aluminum metal that can release small amounts of hydrogen.

Hazardous Decomposition Products: Oxides of calcium and sodium.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product

Acute Toxicity: Not toxic based on mixture ingredients

LD50 and LC50 Data: Refer to individual mixture ingredients

Skin Corrosion/Irritation: Causes skin irritation. Repeated and prolonged contact on the skin can lead to dermatitis.

Serious Eye Damage/Irritation: Causes serious eye irritation. May cause damage if not treated.

Respiratory or Skin Sensitization: No

Germ Cell Mutagenicity: Not classified

Teratogenicity: No based on mixture ingredients

Carcinogenicity: No based on mixture ingredients.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: No based on mixture ingredients

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: Causes skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation. May cause eye damage if not treated.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Prolonged or repeated contact on the skin can lead to dermatitis.

Information on Toxicological Effects - Ingredient(s)

Terraset®

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LD50 and LC50 Data:

Sodium silicate (1344-09-8)	
LD50 Oral Rat	3400 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Sodium silicate (1344-09-8)	
LC50 Fish 1	301 - 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
LC 50 Fish 2	3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])

Persistence and Degradability Not available

Bioaccumulative Potential

Sodium silicate (1344-09-8)	
BCF fish 1	(no bioaccumulation expected)

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of material in accordance with all applicable federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION 14: TRANSPORT INFORMATION

- 14.1 In Accordance with DOT** Not regulated for transport
14.2 In Accordance with IMDG Not regulated for transport
14.3 In Accordance with IATA Not regulated for transport
14.4 In Accordance with TDG Not regulated for transport

National Motor Freight Classification

NMFC Name: Silicate Solution **NMFC Number:** 46580 Sub 2 Class: 65

Tariff Classification Number: 2839.19.0000

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Terraset® Component A	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

Sodium silicate (1344-09-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

US State Regulations

Sodium silicate (1344-09-8)	
U.S. - Texas - Effects Screening Levels - Long Term and Short Term	

Canadian Regulations

Terraset® Component A	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects



Sodium silicate (1344-09-8)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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

Revision date : 03/01/2019

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and the Hazardous Products Regulations (WHMIS 2015).

GHS Full Text Phrases: Based on individual ingredients. Refer to Section 2: Hazardous identification for the Substance or Mixture.

Eye Dam. 1	Serous eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H290	May be corrosive to metals
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Party Responsible for the Preparation of This Document

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