

#### **Safety Data Sheet**

# **S-693 FLEXSTRONG GROUT**

Safety Data Sheet dated: 3/5/2021- version 1.1

Date of first edition: 10/27/2017

#### 1. IDENTIFICATION

#### **Product identifier**

Mixture identification:

Trade name: S-693 FlexStrong Grout

Recommended use of the chemical and restrictions on use Recommended use: Ready-to-use grout paste for grouting joints

Restrictions on use: N.A.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: Armstrong Flooring, Inc.

P.O. Box 3025

17604 - Lancaster - PA - USA Phone: 1-800-233-3823

#### **Emergency 24 hour numbers:**

(USA) CHEMTEL 1-800-255-3924

Emergency international number +01-813-248-0585 (call collect)

#### 2. HAZARD(S) IDENTIFICATION

#### Classification of the chemical

No specific hazards are encountered under normal product use.

#### **Label elements**

#### Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood

P261.B Avoid breathing dust

P264.2 Wash skin thoroughly after handling.
P280.I Wear protective gloves and eye protection.

P501.A Dispose of contents/container in accordance with applicable regulations.

#### Ingredient(s) with unknown acute toxicity:

None

#### Hazards not otherwise classified identified during the classification process:

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possibly carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a dust hazard)

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

N.A.

## Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

#### List of components

Quantity Name Ident. Numb. Classification

25-50 % Silica Sand CAS:14808-60-7 STOT RE 1, H372; Carc. 1A, H350

1-2.5 % Titanium dioxide CAS:13463-67-7 Carc. 2, H351

# 4. FIRST AID MEASURES

# **Description of first aid measures**

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In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

## Most important symptoms/effects, acute and delayed

N.A.

Indication of any immediate medical attention and special treatment needed

#### 5. FIRE-FIGHTING MEASURES

#### **Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

#### Unsuitable extinguishing media:

None in particular.

#### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke. Hazardous combustion products: N.A.

Explosive properties: N.A. Oxidizing properties: N.A.

#### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

#### **6. ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

# Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

# Conditions for safe storage, including any incompatibilities

Storage temperature: N.A. Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control parameters**

List of components with OEL value

Component **OEL Type Country** Ceiling Long Term Long Term **Short Term Short Term Behaviour** Note mg/m3 ppm mg/m3 ppm ACGIH Silica Sand 0.025

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A2 - Suspected Human Carcinogen;lung Titanium dioxide OSHA 15

ACGIH 10

A4 - Not Classifiable as a Human Carcinogen;lower respiratory tract irritation;

# Appropriate engineering controls: N.A. **Individual protection measures**

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: Paste pigmented

Odour: Latex like
Odour threshold: N.A.

pH: 8.09

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: >100,0 °C (212,0 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 1.39 g/cm3
Solubility in water: Dispersible

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A. Oxidizing properties: N.A. Solid/gas flammability: N.A.

#### Other information

Substance groups relevant properties: N.A.

Miscibility: N.A. Fat Solubility: N.A. Conductivity: N.A.

#### 10. STABILITY AND REACTIVITY

# Reactivity

Stable under normal conditions

# **Chemical stability**

Data not available.

# Possibility of hazardous reactions

None.

# **Conditions to avoid**

Stable under normal conditions.

# **Incompatible materials**

None in particular.

#### Hazardous decomposition products

None.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Silica Sand a) acute toxicity LD50 Oral Rat = 500 mg/kg

Titanium dioxide a) acute toxicity LD50 Oral Rat > 10000 mg/kg

#### If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

#### Substance(s) listed on the IARC Monographs:

Silica Sand Group 1
Titanium dioxide Group 2B

#### Substance(s) listed as OSHA Carcinogen(s):

Silica Sand

Titanium dioxide

# Substance(s) listed as NIOSH Carcinogen(s):

Silica Sand

Titanium dioxide

#### Substance(s) listed on the NTP report on Carcinogens:

Silica Sand

# 12. ECOLOGICAL INFORMATION

# **Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of components with eco-toxicological properties

Quantity Component Ident. Numb. Ecotox Infos

25-50 % Silica Sand CAS: 14808-60-7 a) Aquatic acute toxicity: LC50 carp > 10000,00000 mg/L 72h

# Persistence and degradability

N.A.

#### **Bioaccumulative potential**

N.A.

# Mobility in soil

N.A.

#### Other adverse effects

N.A.

#### 13. DISPOSAL CONSIDERATIONS

#### **Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

# 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

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#### **UN** number

ADR-UN number: N.A. DOT-UN Number: N.A. IATA-Un number: N.A. IMDG-Un number: N.A.

#### **UN proper shipping name**

ADR-Shipping Name: N.A. DOT-Proper Shipping Name: N.A. IATA-Technical name: N.A. IMDG-Technical name: N.A.

## Transport hazard class(es)

ADR-Class: N.A.
DOT-Hazard Class: N.A.
IATA-Class: N.A.
IMDG-Class: N.A.

# **Packing group**

ADR-Packing Group: N.A. DOT-Packing group: N.A. IATA-Packing group: N.A. IMDG-Packing group: N.A.

## **Environmental hazards**

Marine pollutant: No

Environmental Pollutant: N.A.

# Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

## **Special precautions**

Department of Transportation (DOT):

N.A

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

## 15. REGULATORY INFORMATION

# **USA - Federal regulations**

# **TSCA - Toxic Substances Control Act**

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

Silica Sand is listed in TSCA Section 8b
Titanium dioxide is listed in TSCA Section 8b

# SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

no substances listed

Section 304 - Hazardous substances:

no substances listed

Section 313 - Toxic chemical list:

no substances listed

# **CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

Substance(s) listed under CERCLA:

no substances listed

#### CAA - Clean Air Act

CAA listed substances:

no substances listed

# **CWA - Clean Water Act**

CWA listed substances:

# **USA - State specific regulations**

#### California Proposition 65

Substance(s) listed under California Proposition 65:

Silica Sand Listed as carcinogen
Titanium dioxide Listed as carcinogen

## Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

Silica Sand

Titanium dioxide

#### Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Silica Sand

Titanium dioxide

#### **New Jersey Right to know**

Substance(s) listed under New Jersey Right to know:

Silica Sand

Titanium dioxide

#### Canada - Federal regulations

#### **DSL - Domestic Substances List**

DSL Inventory:

All the substances are listed in the DSL.

#### **NDSL - Non Domestic Substances List**

NDSL Inventory:

no substances listed

#### **NPRI - National Pollutant Release Inventory**

Substances listed in NPRI:

no substances listed

#### **16. OTHER INFORMATION**

Code Description

H350 May cause cancer.

H351 Suspected of causing cancer .

H372 Causes damage to organs through prolonged or repeated exposure .

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Product code: 905UU0001

# Additional classification information





HMIS Health: 1 = Slight

HMIS Health - Is health hazard chronic?: Yes HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 1 = Slight

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This SDS cancels and replaces any preceding release.

#### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity. WGK: German Water Hazard Class.

KSt: Explosion coefficient.

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