## SAFETY DATA SHEET

Date of issue/Date of revision : 13 August 2024 Version : 3.01



# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : SF CERAMIC 800 BINDER

Product code : 00243762

Other means of identification

Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

**Uses advised against**: Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

Sigma Paint Saudi Arabia Ltd.

PO Box 7509 Dammam 31472 Saudi Arabia

Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34

e-mail address of person responsible for this SDS

: ndpic@sfda.gov.sa

1.4 Emergency telephone

number

: 00966 138473100 extn 1001

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 1B, H360FD STOT SE 2, H371

STOT SE 3, H336

**STOT RE 2, H373** 

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

SF CERAMIC 800 BINDER

### **SECTION 2: Hazards identification**

**Hazard pictograms** 







Signal word : Danger

**Hazard statements** : Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation. May cause drowsiness or dizziness.

May damage fertility. May damage the unborn child.

May cause damage to organs.

May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements** 

**Prevention**: Wear protective gloves, protective clothing and eye or face protection. Keep away from

heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not

breathe vapour.

**Response**: IF exposed or concerned: Get medical advice or attention.

**Storage**: Store in a well-ventilated place. Keep container tightly closed.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

P280, P210, P260, P308 + P313, P403 + P233, P501

Hazardous ingredients : toluene

1-methoxy-2-propanol trimethyl borate

Supplemental label

elements

articles

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

: Restricted to professional users.

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria

for PBT or vPvB

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: Prolonged or repeated contact may dry skin and cause irritation.

SF CERAMIC 800 BINDER

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

| 3.2 Mixtures            | : Mixture   |             |   |  |         |
|-------------------------|---|-------------|---|--|---------|
| Product/ingredient name | Identifiers   | %           | Classification  | Specific Conc.<br>Limits, M-factors<br>and ATEs  | Туре    |
| ethanol                 | REACH #:<br>01-2119457610-43<br>EC: 200-578-6<br>CAS: 64-17-5<br>Index: 603-002-00-5  | ≥10 - ≤25   | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319  | -  | [1] [2] |
| toluene                 | REACH #:<br>01-2119471310-51<br>EC: 203-625-9<br>CAS: 108-88-3<br>Index: 601-021-00-3 | ≥10 - ≤25   | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361d<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304  | -  | [1] [2] |
| 1-methoxy-2-propanol    | REACH #:<br>01-2119457435-35<br>EC: 203-539-1<br>CAS: 107-98-2<br>Index: 603-064-00-3 | ≥10 - ≤25   | Flam. Liq. 3, H226<br>STOT SE 3, H336   | -  | [1] [2] |
| propan-2-ol             | REACH #:<br>01-2119457558-25<br>EC: 200-661-7<br>CAS: 67-63-0<br>Index: 603-117-00-0  | ≥10 - ≤25   | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336   | -  | [1] [2] |
| tetraethyl silicate     | REACH #:<br>01-2119496195-28<br>EC: 201-083-8<br>CAS: 78-10-4<br>Index: 014-005-00-0  | ≥5.0 - ≤10  | Flam. Liq. 3, H226<br>Acute Tox. 4, H332<br>Eye Irrit. 2, H319<br>STOT SE 3, H335   | ATE [Inhalation<br>(vapours)] = 11 mg/l  | [1] [2] |
| methanol                | REACH #:<br>01-2119433307-44<br>EC: 200-659-6<br>CAS: 67-56-1<br>Index: 603-001-00-X  | ≥1.0 - <3.0 | Flam. Liq. 2, H225<br>Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 3, H331<br>STOT SE 1, H370   | ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l STOT SE 1, H370: C ≥ 10% STOT SE 2, H371: 3% ≤ C < 10% | [1] [2] |
| trimethyl borate        | EC: 204-468-9<br>CAS: 121-43-7<br>Index: 005-005-00-1                                 | ≥1.0 - ≤5.0 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Eye Irrit. 2, H319 Repr. 1B, H360FD (oral) STOT SE 1, H370 (optic nerve) See Section 16 for the full text of the H statements declared above. | ATE [Dermal] = 1980<br>mg/kg   | [1] [2] |

English (GB) United Arab Emirates 3/17

Code : 00243762 Date of issue/Date of revision : 13 August 2024

SF CERAMIC 800 BINDER

## **SECTION 3: Composition/information on ingredients**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

Inhalation

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids

apart for at least 10 minutes and seek immediate medical advice.

: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label. Keep

person warm and at rest. Do NOT induce vomiting.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: May cause damage to organs following a single exposure in contact with skin. Causes

skin irritation. Defatting to the skin.

Ingestion : May cause damage to organs following a single exposure if swallowed. Can cause

central nervous system (CNS) depression.

#### **Over-exposure signs/symptoms**

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations

English (GB) United Arab Emirates 4/17

SF CERAMIC 800 BINDER

#### **SECTION 4: First aid measures**

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous combustion products

Decomposition products may include the following materials:

carbon oxides metal oxide/oxides

#### 5.3 Advice for firefighters

Special precautions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

English (GB) United Arab Emirates 5/17

SF CERAMIC 800 BINDER

#### **SECTION 6: Accidental release measures**

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

#### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and material for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

#### 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See

> English (GB) **United Arab Emirates** 6/17

SF CERAMIC 800 BINDER

## **SECTION 7: Handling and storage**

Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### **Occupational exposure limits**

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| €thanol                 | Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).  STEL: 1000 ppm 15 minutes.  STEL: 1880 mg/m³ 15 minutes.  ACGIH TLV (United States, 7/2023). Notes: 1996 Adoption Refers to Appendix A Carcinogens.   |
| toluene                 | STEL: 1000 ppm 15 minutes.  Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).  TWA: 75 mg/m³ 8 hours.  TWA: 20 ppm 8 hours.  Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).  Absorbed through skin.  TWA: 188 mg/m³ 8 hours.   |
| 1-methoxy-2-propanol    | TWA: 50 ppm 8 hours.  ACGIH TLV (United States, 7/2023). Ototoxicant.  TWA: 20 ppm 8 hours.  Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).  TWA: 369 mg/m³ 8 hours.  TWA: 100 ppm 8 hours.  STEL: 553 mg/m³ 15 minutes.  |
|                         | STEL: 150 ppm 15 minutes.  Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).  STEL: 150 ppm 15 minutes.  TWA: 369 mg/m³ 8 hours.  STEL: 553 mg/m³ 15 minutes.  TWA: 100 ppm 8 hours.  ACGIH TLV (United States, 7/2023).  STEL: 369 mg/m³ 15 minutes.  STEL: 100 ppm 15 minutes.  TWA: 184 mg/m³ 8 hours.  TWA: 50 ppm 8 hours. |
| Isopropyl alcohol       | Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).  TWA: 492 mg/m³ 8 hours.  TWA: 200 ppm 8 hours.  STEL: 984 mg/m³ 15 minutes.  STEL: 400 ppm 15 minutes.  Cabinet Decree (12) of 2006 Regarding Regulation Concerning   |

English (GB) United Arab Emirates 7/17

Code : 00243762 Date of issue/Date of revision : 13 August 2024 SF CERAMIC 800 BINDER

Protection of Air from Pollution (United Arab Emirates, 5/2006).

STEL: 500 ppm 15 minutes. TWA: 983 mg/m³ 8 hours. STEL: 1230 mg/m³ 15 minutes.

TWA: 400 ppm 8 hours.

ACGIH TLV (United States, 7/2023). Notes: Refers to Appendix A -- Carcinogens. ACGIH 2003 Adoption

STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours.

Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).

TWA: 10 ppm 8 hours. TWA: 85 mg/m³ 8 hours.

Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).

TWA: 85 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.

ACGIH TLV (United States, 7/2023).

TWA: 85 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.

Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). Absorbed through skin.

TWA: 262 mg/m³ 8 hours. TWA: 200 ppm 8 hours. STEL: 328 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes.

Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). Absorbed through skin.

STEL: 250 ppm 15 minutes. TWA: 262 mg/m³ 8 hours. STEL: 328 mg/m³ 15 minutes. TWA: 200 ppm 8 hours.

ACGIH TLV (United States, 7/2023). Absorbed through skin. Notes: Substances for which there is a Biological Exposure Index or Indices

STEL: 328 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 262 mg/m³ 8 hours. TWA: 200 ppm 8 hours.

**ACGIH TLV (United States).** 

STEL: 6 mg/m<sup>3</sup> TWA: 2 mg/m<sup>3</sup>

Recommended monitoring procedures

trimethyl borate

tetraethyl silicate

methanol

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### 8.2 Exposure controls

English (GB) United Arab Emirates 8/17

Code : 00243762 Date of issue/Date of revision : 13 August 2024 SF CERAMIC 800 BINDER

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection Skin protection Hand protection** 

Chemical splash goggles.

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Gloves** 

For prolonged or repeated handling, use the following type of gloves:

Recommended: butyl rubber, nitrile rubber

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid.

Colour Not available. **Odour** Characteristic. Not available. **Odour threshold** 

Melting point/freezing point

**United Arab Emirates** English (GB) 9/17

Code : 00243762 Date of issue/Date of revision : 13 August 2024

SF CERAMIC 800 BINDER

### **SECTION 9: Physical and chemical properties**

May start to solidify at the following temperature: 0°C (32°F) This is based on data

for the following ingredient: water. Weighted average: -91.4°C (-132.5°F)

Initial boiling point and

boiling range

: >37.78°C

**Flammability** 

**Upper/lower flammability or** 

**explosive limits** 

: Not available. : Greatest known range: Lower: 6% Upper: 44% (methanol)

: Closed cup: 13°C Flash point

**Auto-ignition temperature** 

°C °F Ingredient name Method 1-methoxy-2-propanol 518 270

**Decomposition temperature** 

pН

Stable under recommended storage and handling conditions (see Section 7).

Not applicable, insoluble in water.

Kinematic (40°C): >21 mm<sup>2</sup>/s **Viscosity** 

Solubility(ies)

| Media      | Result      |
|------------|-------------|
| cold water | Not soluble |

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

| Ingredient name  | Vapou    | ır Pressu | ure at 20°C Vapour pressure a |          | ire at 50°C |        |
|------------------|----------|-----------|-------------------------------|----------|-------------|--------|
|                  | mm Hg    | kPa       | Method                        | mm<br>Hg | kPa         | Method |
| trimethyl borate | 136.5116 | 18.2      |                               |          |             |        |

**Evaporation rate** 

: Highest known value: 2.1 (methanol) Weighted average: 1.61compared with butyl

acetate

Relative density

0.92

Vapour density

: Highest known value: 7.22 (Air = 1) (tetraethyl silicate). Weighted average: 2.9

**Explosive properties** 

The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

**Oxidising properties** 

: Product does not present an oxidizing hazard.

Particle characteristics

: Not applicable. Median particle size

#### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

English (GB) United Arab Emirates 10/17

SF CERAMIC 800 BINDER

## **SECTION 10: Stability and reactivity**

**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

Evolves hydrogen on contact with water. Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name | Result                          | Species | Dose                     | Exposure |
|-------------------------|---------------------------------|---------|--------------------------|----------|
| <b>e</b> thanol         | LC50 Inhalation Vapour          | Rat     | 124700 mg/m <sup>3</sup> | 4 hours  |
|                         | LD50 Dermal                     | Rat     | 17100 mg/kg              | -        |
|                         | LD50 Oral                       | Rat     | 7 g/kg                   | -        |
| toluene                 | LC50 Inhalation Vapour          | Rat     | 49 g/m³                  | 4 hours  |
|                         | LD50 Dermal                     | Rabbit  | 8.39 g/kg                | -        |
|                         | LD50 Oral                       | Rat     | 5580 mg/kg               | -        |
| 1-methoxy-2-propanol    | LC50 Inhalation Vapour          | Rat     | >7000 ppm                | 6 hours  |
| ,                       | LD50 Dermal                     | Rabbit  | 13 g/kg                  | -        |
|                         | LD50 Oral                       | Rat     | 5.2 g/kg                 | -        |
| Isopropyl alcohol       | LC50 Inhalation Vapour          | Rat     | 72600 mg/m <sup>3</sup>  | 4 hours  |
|                         | LD50 Dermal                     | Rabbit  | 12800 mg/kg              | -        |
|                         | LD50 Oral                       | Rat     | 5045 mg/kg               | -        |
| tetraethyl silicate     | LC50 Inhalation Dusts and mists | Rat     | 10 to 16 mg/l            | 4 hours  |
|                         | LD50 Dermal                     | Rabbit  | 5.878 g/kg               | _        |
|                         | LD50 Oral                       | Rat     | 6270 mg/kg               | -        |
| methanol                | LC50 Inhalation Vapour          | Rat     | 64000 ppm                | 4 hours  |
|                         | LD50 Dermal                     | Rabbit  | 15800 mg/kg              | -        |
|                         | LD50 Oral                       | Rat     | 5600 mg/kg               | _        |
| trimethyl borate        | LD50 Dermal                     | Rabbit  | 1.98 g/kg                | _        |
| ,                       | LD50 Oral                       | Rat     | 6.14 g/kg                | _        |

Conclusion/Summary

: There are no data available on the mixture itself.

**Irritation/Corrosion** 

**Conclusion/Summary** 

Skin: There are no data available on the mixture itself.Eyes: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

**Sensitisation** 

**Conclusion/Summary** 

Skin: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

**Mutagenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Carcinogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Reproductive toxicity

**Conclusion/Summary**: There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

English (GB) United Arab Emirates 11/17

Code : 00243762 Date of issue/Date of revision : 13 August 2024

SF CERAMIC 800 BINDER

## **SECTION 11: Toxicological information**

| Product/ingredient name   | Category   | Route of exposure | Target organs   |
|---|--|-------------------|---|
| toluene 1-methoxy-2-propanol propan-2-ol tetraethyl silicate methanol | Category 3<br>Category 3<br>Category 3<br>Category 1 | -<br>-<br>-       | Narcotic effects Narcotic effects Narcotic effects Respiratory tract irritation |
| trimethyl borate  | Category 1   | -                 | optic nerve   |

#### Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs |
|-------------------------|------------|-------------------|---------------|
| toluene                 | Category 2 | -                 | -             |

#### **Aspiration hazard**

| Product/ingredient name | Result                         |
|-------------------------|--------------------------------|
| toluene                 | ASPIRATION HAZARD - Category 1 |

Information on likely routes of exposure

: Not available.

#### Potential acute health effects

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Ingestion** : May cause damage to organs following a single exposure if swallowed. Can cause

central nervous system (CNS) depression.

**Skin contact**: May cause damage to organs following a single exposure in contact with skin. Causes

skin irritation. Defatting to the skin.

**Eye contact** : Causes serious eye irritation.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced foetal weight increase in foetal deaths skeletal malformations

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

English (GB) United Arab Emirates 12/17

Code : 00243762 Date of issue/Date of revision : 13 August 2024

SF CERAMIC 800 BINDER

## **SECTION 11: Toxicological information**

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : May cause damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Reproductive toxicity: May damage fertility. May damage the unborn child.

Other information : Not available.

Prolonged or repeated contact may dry skin and cause irritation. Contains . methanol . Cannot be made non-poisonous. May be fatal or cause blindness if swallowed. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

| Product/ingredient name | Result                         | Species                  | Exposure |
|-------------------------|--------------------------------|--------------------------|----------|
| <b>e</b> thanol         | Acute EC50 7640 mg/l Fresh     | Daphnia - <i>Daphnia</i> | 48 hours |
|                         | water                          | magna                    |          |
| 1-methoxy-2-propanol    | Acute LC50 23300 mg/l          | Daphnia                  | 48 hours |
|                         | Acute LC50 >4500 mg/l          | Fish                     | 96 hours |
|                         | Fresh water                    |                          |          |
| Isopropyl alcohol       | Acute EC50 10100 mg/l          | Daphnia - Daphnia        | 48 hours |
|                         | Fresh water                    | magna                    |          |
| methanol                | Acute LC50 13 mg/l Fresh water | Fish                     | 96 hours |
|                         |                                |                          |          |

**Conclusion/Summary**: There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

**Conclusion/Summary**: There are no data available on the mixture itself.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| <b>e</b> thanol         | -                 | -          | Readily          |
| toluene                 | -                 | -          | Readily          |

| <b>United Arab Emirates</b> | 13/17                |
|-----------------------------|----------------------|
|                             | United Arab Emirates |

Code : 00243762 Date of issue/Date of revision : 13 August 2024

SF CERAMIC 800 BINDER

## **SECTION 12: Ecological information**

#### 12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF  | Potential |
|-------------------------|--------|------|-----------|
| ethanol                 | -0.35  | -    | Low       |
| toluene                 | 2.73   | 8.32 | Low       |
| 1-methoxy-2-propanol    | <1     | -    | Low       |
| propan-2-ol             | 0.05   | =    | Low       |
| tetraethyl silicate     | 3.18   | -    | Low       |
| methanol                | -0.77  | -    | Low       |
| trimethyl borate        | -1.9   | -    | Low       |

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

### Hazardous waste : Yes. European waste catalogue (EWC)

| Waste code | Waste designation   |  |  |
|------------|---|--|--|
| 08 01 11*  | waste paint and varnish containing organic solvents or other hazardous substances |  |  |

#### **Packaging**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

| Type of packaging | European waste catalogue (EWC) |                 |  |
|-------------------|--------------------------------|-----------------|--|
| Container         | 15 01 06                       | mixed packaging |  |

Code : 00243762 Date of issue/Date of revision : 13 August 2024

SF CERAMIC 800 BINDER

### **SECTION 13: Disposal considerations**

**Special precautions** 

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

|                                    | ADR/RID         | IMDG            | IATA            |
|------------------------------------|-----------------|-----------------|-----------------|
| 14.1 UN number or ID number        | UN1263          | UN1263          | UN1263          |
| 14.2 UN proper shipping name       | PAINT           | PAINT           | PAINT           |
| 14.3 Transport<br>hazard class(es) | 3               | 3               | 3               |
| 14.4 Packing group                 | II              | II              | II              |
| 14.5 Environmental hazards         | No.             | No.             | No.             |
| Marine pollutant substances        | Not applicable. | Not applicable. | Not applicable. |

#### **Additional information**

ADR/RID : None identified.

**Tunnel code** : (D/E)

**IMDG** : None identified. IATA : None identified.

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not applicable.

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

**United Arab Emirates** English (GB) 15/17

Code : 00243762 Date of issue/Date of revision : 13 August 2024

SF CERAMIC 800 BINDER

## **SECTION 15: Regulatory information**

**Annex XVII - Restrictions**: Restricted to professional users.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other national and international regulations.

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

15.2 Chemical safety

assessment

: No Chemical Safety Assessment has been carried out.

#### SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

Full text of abbreviated H statements

H225 Highly flammable liquid and vapour.H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

H360FD May damage fertility. May damage the unborn child.

H361d Suspected of damaging the unborn child.

H370 Causes damage to organs.H371 May cause damage to organs.

H373 May cause damage to organs through prolonged or repeated exposure.

Full text of classifications [CLP/GHS]

: Acute Tox. 3 ACUTE TOXICITY - Category 3
Acute Tox. 4 ACUTE TOXICITY - Category 4
Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3

Repr. 1B REPRODUCTIVE TOXICITY - Category 1B
Repr. 2 REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED

EXPOSURE - Category 2

STOT SE 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE

EXPOSURE - Category 1

STOT SE 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE

EXPOSURE - Category 2

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE

EXPOSURE - Category 3

English (GB) United Arab Emirates 16/17

Code : 00243762 Date of issue/Date of revision : 13 August 2024

SF CERAMIC 800 BINDER

#### **SECTION 16: Other information**

**History** 

Date of issue/ Date of : 13 August 2024

revision

Date of previous issue : 23 February 2023

Prepared by : EHS Version : 3.01

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

English (GB) United Arab Emirates 17/17