USG MIDDLE EAST FLEXIBLE FIRE RATED SEALANT

1. IDENTIFICATION

Product identifier
USG Middle East flexible fire rated sealant
Synonym(s)
Sealant, Fire Sealant, Acoustical Sealant, Filler
Recommended use
Interior use
Recommended restrictions
Use in accordance with manufacturer's recommendations
Manufacturer / Importer / Supplier / Distributor information/Company name
USG Middle East Ltd
7410 (WASIL) Street #23, Cross 76 (Right)
Second Industrial City
Dammam 34326 – 4201, Kingdom of Saudi Arabia
Tel: +966 13 812 0995 / Fax: +966 13 812 1029
E-mail: info@usgme.com / marketing@usgme.com
Website: https://www.usgme.com

2. HAZARD(S) IDENTIFICATION

Physical hazards
Not classified.
Health hazards
Not classified.
OSHA defined hazards
Not classified.
Label elements
Hazard symbol
None.
Signal word
None.
Hazard statement
None.
Precautionary statement
Prevention
Observe good industrial hygiene practices.
Response
Get medical attention/advice if you feel unwell.
Storage
Store as indicated in Section 7.
Disposal
Dispose of in accordance with local, state, and federal regulations.
Hazard(s) not otherwise classified (HNOC)
None known.
Supplemental information
None.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Mixtures

Chemical name	CAS number	%
Calcium Carbonate	1317-65-3	70
Ethylene Glycol	107-21-1	5
Frits	65997-18-4	10
Xylenes	1330-20-7	10
2-Propanol, 1-chloro-, phosphate	13674-84-5	3
Urea	77703-56-1	2

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4. FIRST-AID MEASURES

Inhalation
Get medical advice/attention if you feel unwell. Allow affected person to breathe fresh air. Allow the victim to rest.
Skin contact
Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
Ingestion
Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed
Symptoms/effects:
Not expected to present a significant hazard under anticipated conditions of normal use.
Potential adverse human health effects and symptoms:
Based on available data, the classification criteria are not met.
Indication of immediate medical attention and special treatment needed
No additional information available
General information
Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Water spray. Dry powder. Foam. Carbon dioxide. Sand.
Unsuitable extinguishing media:
Do not use a heavy water stream.
Specific hazards arising from the chemical
Carbon dioxide. Carbon monoxide.
Special protective equipment and precautions for firefighters
Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting equipment/instructions
Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Specific methods
Cool material exposed to heat with water spray and remove it if no risk is involved.
General fire hazards
No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
For personal protection, see Section 8 of the SDS.
Methods and materials for containment and cleaning up
Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.
Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

7. HANDLING AND STORAGE

Precautions for safe handling
Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures
Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Conditions for safe storage, including any incompatibilities
Keep cool. Storage temperature 5 – 25 °C. Store in a dry place. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products
Strong bases. Strong acids.
Incompatible materials
Sources of ignition. Direct sunlight.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	CAS number	Value	Form
Calcium carbonate (CAS 1317-65-3)	PEL	5 mg/m³ 15 mg/m³	Respirable fraction. Total dust.

US. ACGIH Threshold Limit Values

Components	CAS number	Value	Form
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m³	Aerosol.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	CAS number	Value	Form
Calcium carbonate (CAS 1317-65-3)	TWA	5 mg/m³ 10 mg/m³	Respirable. Total.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls personal protective equipment

Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear approved safety goggles.

Skin protection

Hand protection

It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.

Other

Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

Thermal hazards

None

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. Observe any medical surveillance requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state

Solid.

Form

Pasty.

Color

Red. white. Grey.

Odor

Characteristic.

Odor threshold

Not determined.

pH

≈ 9 Not applicable.

Melting point/freezing point

Not applicable.

Initial boiling point and boiling range

Not applicable.

Flash point

Not applicable.

Evaporation rate

Not applicable.

Flammability (solid, gas)

Not applicable,Non flammable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not applicable.

Flammability limit - upper (%)

Not applicable.

Explosive limit - lower (%)

Not applicable.

Explosive limit - upper (%)

Not applicable.

Vapor pressure
Not available.
Vapor density
Not applicable.
Relative density
1.6 (H^2O=1)
Solubility(ies)
Solubility (water)
Not available.
Partition coefficient (n-octanol/water)
Not applicable.
Auto-ignition temperature
Not applicable.
Decomposition temperature
Not applicable.
Viscosity
Not applicable.
Other information
Bulk density
1600 kg/m^3
VOC (Weight %)
LEED 2009 LEED 3.0.

10. STABILITY AND REACTIVITY

Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability
Stable under normal conditions. Not established.
Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use. Not established.
Conditions to avoid
None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.
Incompatible materials
Strong acids. Strong bases.
Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Ingestion
May cause discomfort if swallowed.
Inhalation
Airborne dust may irritate throat and upper respiratory system causing coughing.
Skin contact
May cause allergic skin reactions especially in individuals with pre-existing skin disease such as eczema. (See Section 16).
Eyes contact
Airborne dust may cause mechanical eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics
Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing.
Information on toxicological effects
Acute toxicity
Not classified

Components	Species	Test Results
Di-isononyl phthalate (28553-12-0)		
LD50 oral	Rat	> 10000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal	Rabbit	> 3160 mg/kg bodyweight (24 h, Rabbit, Female, Experimental value, Dermal)
LC50 Inhalation	Rat	> 4.4 mg/l air (4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 017 day(s))

Skin corrosion/irritation
Not classified pH: ≈ 9 Not applicable.
Serious eye damage/eye irritation
Not classified pH: ≈ 9 Not applicable.
Respiratory or skin sensitization
Respiratory sensitization
Not classified.
Germ cell mutagenicity
Not classified
Carcinogenicity
Not classified.

Reproductive toxicity
Not classified.
Specific target organ toxicity-single exposure
Not classified.
Specific target organ toxicity -repeated exposure
Not classified.
Aspiration hazard
Not classified.
Potential adverse human health effects and symptoms
Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short term (acute)
Not classified.

Components	Species	Test Results
Di-isononyl phthalate (28553-12-0)		
Fish	LC50	> 102 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
Crustacea	EC50	> 74 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
Algae	ErC50	> 88 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

Persistence and degradability
CFS-S ACR; (DINP):
Bioaccumulative potential: Not established.
Di-isononyl phthalate (28553-12-0):
Bioaccumulative potential: Biodegradable in the soil. Readily biodegradable in water.
Bioaccumulative potential
CFS-S ACR; (DINP):
Bioaccumulative potential: Not established.
Di-isononyl phthalate (28553-12-0):
BCF - Fish [1] : < 3 l/kg (14 day(s), Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Kow): 8.8 – 9.7 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential: High potential for bioaccumulation (Log Kow > 5).
Mobility in soil
CFS-S ACR; (DINP)
Mobility in soil: No additional information available.
Di-isononyl phthalate (28553-12-0)
Surface tension: 30.7 mN/m (20 °C, 100 vol %, Wilhelmy plate method: surface tension)
Partition coefficient n-octanol/water (Log Koc): 6 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil: Adsorbs into the soil.
Other adverse effects
Ozone: Not classified
Other adverse effects: No additional information available
Other information: Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Dispose in a safe manner in accordance with local/national regulations.
Product/Packaging disposal recommendations
Recycle the material as far as possible.
Additional information
European waste catalogue: 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09.

14. TRANSPORT INFORMATION

DOT
Not regulated as a hazardous material by DOT.
ADR
Not regulated as a dangerous good.
IATA
Not regulated as a dangerous good.
IMDG
Not regulated as a dangerous good.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. REGULATORY INFORMATION

Saudi Arabian Inventory of Chemical Substance:

CAS #	1317-65-3	Calcium Carbonate
CAS #	107-21-1	Ethylene Glycol
CAS #	65997-18-4	Frits
CAS #	1330-20-7	Xylenes
CAS #	13674-84-5	2-Propanol, 1-chloro-, phosphate
CAS #	77703-56-1	Urea

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue date
14-November-2021
Revision date
1-December-2022
Version #
02
Further information
Skin Sensitization Potential: This product contains an amount of Triazinetriethanol (THT) (CAS No. 4719-04-4) that is within the approved EPA regulated limits. THT can act as a sensitizer. Numerous human studies with concentrations up to 1% yielded negative (no sensitization) results. However, some results showed positive reactions in concentrations <0.5% mostly in persons with eczema.

Crystalline silica: Raw materials in this product may contain respirable crystalline silica. Exposures to respirable crystalline silica are not expected during the normal use of this product because this product is a paste and sanding it after it dries is not necessary, therefore respirable silica particles could not be released. However, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.
Ethylene glycol: This product contains a small amount of ethylene glycol, which has been shown to cause kidney damage in animal studies via repeated oral exposure (ingestion).
However, such exposures are not expected to occur during normal use of this product. If ingested, call a poison center or doctor if you feel unwell.
Bucket NFPA Classification:
- Health: 0
- Flammability: 1
- Physical hazard: 0

NFPA Ratings:
- Health: 2
- Flammability: 0
- Physical hazard: 0
- Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

NFPA Ratings:

List of abbreviations References

NFPA: National Fire Protection Association.
Registry of Toxic Effects of Chemical Substances (RTECS)
HSDB® - Hazardous Substances Data Bank
Torben et al. (2001). Environmental and Health Assessment of Substances in Household Detergents and Cosmetic Products.

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

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