ENSEMBLE™ SPRAY-APPLIED FINISH

1. IDENTIFICATION

Product identifier
USG Ensemble™ Spray-Applied Finish.
Synonyms
Acoustical Spray Finish.
Recommended use
Interior use.
Recommended restrictions
Use in accordance with manufacturer's recommendations.
Manufacturer / Importer / Supplier / Distributor information/Company name
USG Middle East Ltd
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Second Industrial City
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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.
Supplemental information
None.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Mixtures

Chemical name	CAS number	%
Limestone	1317-65-3	<30
Titanium dioxide	13463-67-7	<15
Kaolin, calcined	92704-41-1	<5

4. FIRST-AID MEASURES

Inhalation
Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.
Skin contact
Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.
Eye contact
Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion
Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed
Under normal conditions of intended use, this material does not pose a risk to health.
Dust may irritate throat and respiratory system and cause coughing.
Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically.
General information
Ensure that medical personnel are aware of the material(s) involved.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media
Not applicable.
Specific hazards arising from the chemical
Not a fire hazard.
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.
Fire-fighting equipment/instructions
Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods
Cool material exposed to heat with water spray and remove it if no risk is involved.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
See Section 8 of the SDS for Personal Protective Equipment.
Methods and materials for containment and cleaning up
Large Spills: Scoop spilled materials and recover as much of the product as possible for use. If spillage is unrecoverable, dispose according to local, state, and federal regulations.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).
Clean surface thoroughly to remove residual contamination.
Environmental precautions
Avoid discharge to drains, sewers, and other water systems.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid inhalation of dust and contact with skin and eyes. Minimize dust generation and accumulation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands after handling. Observe good industrial hygiene practices. Use proper lifting techniques.
Conditions for safe storage, including any incompatibilities
Store in a cool, dry place. Store in a closed container away from incompatible materials. Protect from moisture. Keep away from heat. Do not use if material has spoiled, i.e. there is a mouldy appearance or an unpleasant odor. Keep container closed when not in use.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

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

Components	CAS number	Value	Form
Limestone (CAS 1317-65-3)	PEL	5 mg/m³ 15 mg/m³	Respirable fraction. Total dust.
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m³ 15 mg/m³	Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	CAS number	Value	Form
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m³	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)		15 mg/m³	Total dust.
(CAS 14808-60-7)	PEL	50 mppcf 15 mg/m³	Total dust. Respirable fraction.

US. ACGIH Threshold Limit Values

Components	CAS number	Value	Form
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m³	Respirable fraction. Total dust.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	CAS number	Value	Form
Limestone (CAS 1317-65-3) (CAS 14808-60-7)	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 uses. Observe any medical surveillance requirements.

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 separately from regular wash. Observe any medical surveillance requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state

Semi-solid.

Form

Semi-solid.

Color

White.

Odour

To be determined.

Odour threshold

Not applicable.

pH

9 - 9.8

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.

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 applicable.

Vapor density

Not applicable.

Relative density

0.66 - 0.77

Solubility(ies)

Solubility (water)

Not applicable.

Partition coefficient (n-octanol/water)
Not applicable.
Auto-ignition temperature
Not applicable.
Decomposition temperature
Not applicable.
Viscosity
Not applicable.

Other information
Bulk density
700-770 kg/m^3
VOC (Weight %)
<5 g/l

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
Hazardous polymerization does not occur.
Conditions to avoid
Contact with incompatible materials.
Incompatible materials
Acids. Exposure to water and acids must be supervised because the reactions are vigorous and produce large amounts of heat.
Hazardous decomposition products
Above 800°C limestone ($CaCO^3$) can decompose to lime (CaO) and release carbon dioxide (CO^2).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation
Inhalation of dust may cause respiratory irritation.
Skin contact
Under normal conditions of intended use, this product does not pose a skin hazard.
Eyes contact
Direct contact with airborne particulates may cause temporary irritation.
Ingestion
Ingestion may cause irritation and stomach discomfort.
Symptoms related to the physical, chemical and toxicological characteristics
Dust may irritate eye and mucous membranes of the nose, throat, and upper respiratory system causing sneezing and/or coughing.
Information on toxicological effects
Acute toxicity
Not expected to be a hazard under normal conditions of intended use.

Components	Species	Test results
Titanium dioxide (CAS 13463-67-7)		
Acute		
Inhalation		
LC50	Rat	3.43 mg/l, 4 hours
Oral		
LC50	Rat	>5000 mg/kg

Skin corrosion/irritation
Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Serious eye damage/eye irritation
Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization
Respiratory sensitization
Not a respiratory sensitizer.
Skin sensitization
Not a skin sensitizer.
Germ cell mutagenicity
Data does not suggest that this product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity
This product is not expected to increase the risk of cancer.
IARC Monographs. Overall Evaluation of Carcinogenicity
Not listed.

NTP Report on Carcinogens
Not listed.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.
Reproductive toxicity
Not expected to be a reproductive hazard.
Specific target organ toxicity-single exposure
No data available, but none expected.
Specific target organ toxicity -repeated exposure
No data available, but none expected.
Aspiration hazard
Not an aspiration hazard.
Chronic effects
Pre-existing skin and respiratory conditions including dermatitis, asthma, and chronic lung disease might be aggravated by exposure.

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.
Persistence and degradability
No data available
Bioaccumulative potential
Bioaccumulation is not expected.
Mobility in soil
No data available.
Other adverse effects
None expected.

13. DISPOSAL CONSIDERATIONS

Disposal instruction
Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.
Local disposal regulations
Dispose of in accordance with local regulations.
Hazardous waste code
Not regulated.
Waste from residues / unused products
Dispose of in accordance with local regulations.
Contaminated packaging
Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT
Not regulated as dangerous goods.
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	Limestone
CAS #	13463-67-7	Titanium dioxide
CAS #	92704-41-1	Kaolin, calcined

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

Issue date
20-August-2019
Revision date
4-June-2021
Version #
02

Further information
Titanium dioxide: In lifetime inhalation studies of experimental rats, airborne nano-sized (15-40 nanometre particle size range) particles caused lung tissue overload, chronic inflammation, and subsequent tumour formation. Because of these study results, titanium dioxide was classified by IARC as a 2B (possibly carcinogenic to humans). However, other laboratory animals such as mice and hamsters did not develop lung tumors under similar testing conditions. Furthermore, results of two major human epidemiology studies among titanium dioxide workers in the US and in Europe did not demonstrate an elevated lung cancer risk, and did not suggest an association between occupational exposure to titanium dioxide and risk for cancer. The titanium dioxide contained in this product is embedded, and generation of airborne nano-sized titanium dioxide particles are not expected.

NFPA Ratings:
Health: 1
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.

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