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**SECTION 1
 CHEMICAL PRODUCT AND IDENTIFICATION**

COMPANY	USG UK Ltd 1 Swan Road South West Industrial Estate Peterlee, Co. Durham SR8 2HS, England Tel: +44 (0) 191 586 1121
PRODUCT(S)	USG SHEETROCK® Brand Primer Surfacer TUFF-HIDE™
CHEMICAL FAMILY	An aqueous blend of minerals and an emulsion polymer
SYNONYMS	Sprayable wall and ceiling finish

**SECTION 2
 HAZARD IDENTIFICATION**

EMERGENCY OVERVIEW: This product is not expected to produce any unusual hazards during normal use. Exposure to high dust/mist or mist levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. This product can release vapors that when inhaled can cause headache, dizziness, nausea, drowsiness, stupor, and irritation to the respiratory system. Leave area to breathe fresh air. Avoid further exposure. If symptoms persist, get medical attention.

Label Elements:

Classification: The product is not classified as hazardous under Chemicals Hazardous Information and Packaging for Supply (CHIPS 2000).

Risk Phrases: Irritating to eyes, respiratory system and skin (R36/37/38)

Safety Phrases: In case of insufficient ventilation, wear suitable respiratory equipment. Wear eye/face protection. (S38/39)

POTENTIAL HEALTH EFFECTS

ACUTE :

Inhalation	Dust/mist exposures generated during the handling of the product may irritate eyes, skin, nose, throat, and upper respiratory tract. Persons subjected to large amounts of this dust/mist will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.
Eyes	Direct contact can cause mechanical irritation of eyes. Vapors may cause slight temporary eye irritation. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.
Skin	Direct, prolonged or repeated contact with the skin may cause irritation.
Ingestion	If ingested may cause temporary irritation to the gastrointestinal tract, especially the stomach. No known effects.

CHRONIC:

Inhalation	Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration. Animal studies indicate that prolonged and repeated overexposure to ethylene glycol may cause kidney and/or liver damage and birth defects. Overexposure is highly unlikely at concentrations present in this
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	product. Prolonged and repeated breathing of respirable talc dust may cause lung disease (pneumoconiosis). The extent and severity of lung injury correlates with the length of exposure and dust/mist concentration.
Eyes	No known effect.
Skin	No known effect.
Ingestion	No known effect.

TARGET ORGANS: Eyes, skin and respiratory system.

PRIMARY ROUTES OF ENTRY: Inhalation, eyes and skin contact.

CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S) All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11 : Toxicology Information for detailed information

MATERIAL	IARC	International Agency for Research on Cancer (World Health Organization)
Crystalline silica	1	1- Carcinogenic to humans
Vinyl Acetate Monomer	2B	2B – Possibly carcinogenic to humans
Acrylate Monomer	2B	
Acetaldehyde	2B	
Formaldehyde	1	
1, 4 Dioxane	2B	

SECTION 3
COMPOSITION, INFORMATION ON INGREDIENTS

USG SHEETROCK® Brand Primer Surfacer TUFF-HIDE™ is primarily composed of a proprietary aqueous blend of minerals and a vinyl acrylic latex. The remaining content is composed of talc (CAS 14807-96-6)(<5%) and sodium citrate (CAS 68-04-2)(<5%). Trace levels (<5%) of crystalline silica (CAS 14808-60-7) may be associated with the mineral content in this product.

SECTION 4
FIRST AID MEASURES

FIRST AID PROCEDURES

Inhalation	Remove to fresh air. Leave the area of dust/mist exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.
Eyes	To prevent mechanical irritation due to particulate in the eyes, flush thoroughly with water for 15 minutes. If irritation persists, consult physician.
Skin	Wash with mild soap and water. A commercially available hand lotion may be used to treat dry skin areas. If skin has become cracked, take appropriate action to prevent infection and promote healing. If irritation persists, consult physician.
Ingestion	This product is not intended to be ingested or eaten.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.

NOTES TO PHYSICIAN: Treatment should be directed at the control of symptoms and the clinical condition.



**SECTION 5
FIRE FIGHTING MEASURES**

General Fire Hazards	None known.		
Extinguishing Media	Water or use extinguishing media appropriate for surrounding fire.		
Special Fire Fighting Procedures	Wear appropriate personal protective equipment. See section 8.		
Unusual Fire and Explosion Hazards	None known.		
Hazardous Combustion Products	Above 800° C – limestone may decompose to calcium oxide (CaO) and carbon dioxide (CO ₂). Above 175° C – vinyl acrylic polymer may decompose to H ₂ O, CO ₂ , CO, and acetic acid, could produce vinyl acetate monomers.		
Flash Point	Not determined	Auto Ignition	Not determined
Method Used	Not determined	Flammability Classification	Not determined
Upper Flammable Limit (UFL)	Not determined		
Lower Flammable Limit (LFL)	Not determined	Rate of Burning	Not determined

**SECTION 6
ACCIDENTAL RELEASE MEASURES**

CONTAINMENT: No special precautions. Wear appropriate personal protective equipment. See section 8.

CLEAN-UP: Use normal clean up procedures. Floor may be slippery; use care to avoid falling. Shovel or scoop up material from spillage into a waste container for disposal. If dry, shovel or sweep up material from spillage and place collected material into a container for recovery or waste disposal. Avoid dust/mist generation. Avoid inhalation of dust/mist and contact with eyes and skin. Wear appropriate protective equipment. Maintain proper ventilation. If vacuum is used to collect dust/mist, use an industrial vacuum cleaner with a high efficiency air filter. If sweeping is necessary, use dust suppressant. Do not use compressed air for clean up. These procedures will help minimize potential exposures. If washed down, may plug drains. If already mixed with water, scrape up and place in container.

DISPOSAL: Dispose of material in accordance with regulations. Never discharge directly into sewers or surface waters without evaluating all affected ecosystems. Consult with environmental regulatory agencies for guidance on acceptable disposal practices.

**SECTION 7
HANDLING AND STORAGE**

HANDLING: Avoid dust/mist contact with eyes. Wear the appropriate eye protection against dust/mist (See Section 8). Minimize dust/mist generation and accumulation. Avoid breathing dust/mist. Wear the appropriate respiratory protection against dust/mist in poorly ventilated areas and if OES is exceeded (see Section 8). Use good safety and industrial hygiene practices.

STORAGE: Store at room temperature in a dry location. Protect from freezing, extreme heat, and exposure to direct sunlight. Store in tightly closed containers. Protect product from physical damage. Keep tightly sealed following use. Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Close container and discard properly.



**SECTION 8
 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Occupational Exposure Standards (OES) based on 8hr TWA

Proprietary blend of minerals	10 mg/m ³ (Total Inhalable); 4 mg/m ³ (Respirable)
Talc	1 mg/m ³

Maximum Exposure Limit (MEL) based on 8hr TWA

Crystalline Silica	0.3 mg/m ³ 8hr TWA (Total Inhalable)
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Refer to current edition of HSE (Health and Safety Executive) EH40 "Occupational Exposure Limits"

ENGINEERING CONTROLS: Provide ventilation sufficient to control airborne dust/mist levels. If user operations generate airborne dust/mist, use ventilation to keep dust/mist concentrations below permissible exposure limits. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control dust/mist levels below permissible exposure limits.

RESPIRATORY PROTECTION: Special ventilation typically not necessary, but may be desirable in specific work conditions. Use mechanical or local exhaust ventilation to keep levels below TLV. If engineering controls are not possible, wear a half face mask to EN Class FFP2s, if dust/mist exceed permissible exposure limits.

OTHER PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face	Wear eye protection (safety glasses or goggles) to avoid possible eye irritation.
Skin	Wear gloves and protective clothing to prevent repeated or prolonged skin contact. Barrier creams or skin lotion may be applied to face, neck, wrist and hands when skin is exposed to help prevent drying of skin.
General	Selection of Personal Protective Equipment will depend on environmental working conditions and operations.

**SECTION 9
 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Off white	Vapor Density (Air = 1)	Not Determined
Odor	Mild acrylic odor	Specific Gravity (H₂O = 1)	1.3-1.5
Odor Threshold	Not Determined	Solubility (H₂O)	Water-based emulsion
Physical State	Liquid	Partition Coefficient	Not Determined
pH @ 77°F (25 °C)	~ 7.5-11	Auto-ignition Temperature	Not Determined
Melting Point	Not applicable	Decomposition Temperature	Not Determined
Freezing Point	32 °F (0 °C)	Viscosity	Not Determined
Boiling Point	212 °F (100 °C)	Particle Size	Not Determined
Flash Point	Not Determined	Bulk Density	1.3-1.5 Kg/Litre
Evaporation Rate (BuAc = 1)	Not Determined	Molecular Weight	Mixture
Upper Flammable Limit (UFL)	Not Determined	VOC Content	<50 g/l
Lower Flammable Limit (LFL)	Not Determined	Percent Volatile	48-52
Vapor Pressure (mm Hg)	17 @ 68 °F (20 °C)		



**SECTION 10
CHEMICAL STABILITY AND REACTIVITY**

STABILITY	Stable.
CONDITIONS TO AVOID	Contact with incompatibles.
INCOMPATIBILITY	None known.
HAZARDOUS POLYMERIZATION	Will not occur.
HAZARDOUS DECOMPOSITION	Above 800° C – limestone may decompose to calcium oxide (CaO) and carbon dioxide (CO ₂). Above 175° C – vinyl acrylic polymer may decompose to H ₂ O, CO ₂ , CO, and acetic acid, could produce vinyl acetate monomers.

**SECTION 11
TOXICOLOGICAL INFORMATION**

ACUTE EFFECTS: LD₅₀: Not Available for product.
LC₅₀: Not Available for product.

CHRONIC EFFECTS / CARCINOGENICITY:

Crystalline silica: Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.

In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

Vinyl acetate/acetaldehyde/formaldehyde: A component of this product is a common emulsion polymer most familiar as the component of ordinary white glue which exhibits the “sticky” characteristic. The emulsion polymer is not classified as a carcinogen by IARC, NTP or ACGIH. However, trace amounts of residual vinyl acetate and acrylate monomers, acetaldehyde and formaldehyde may be associated with the production of the emulsion polymer.

Any exposure to vinyl acetate monomer, acetaldehyde, or formaldehyde is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product.

Ethylene Glycol: Animal studies indicate that prolonged and repeated overexposure to ethylene glycol may cause kidney and/or liver damage and birth defects. Overexposure is highly unlikely at concentrations present in this product. Trace amounts of 1,4 dioxane, acetaldehyde and ethylene glycol monomethyl ether may be associated with the production of ethylene glycol. Any exposure to these substances is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product.

Talc: Prolonged and repeated breathing of respirable talc dust may cause lung disease (pneumoconiosis). The extent and severity of lung injury correlates with the length of exposure and dust concentration.

**SECTION 12
ECOLOGICAL INFORMATION**

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on the ecology.

Ecotoxicity value Not determined.



**SECTION 13
 DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of material in accordance with regulations. Never discharge directly into sewers or surface waters without evaluating all affected ecosystems. Consult with environmental regulatory agencies for guidance on acceptable disposal practices.

**SECTION 14
 TRANSPORT INFORMATION**

Material not restricted for transportation regulations

Shipping Name	Same as product name
Hazard Class	Not classified.
UN/NA #	None. Not classified.
Packing Group	None.
Label (s) Required	Not applicable.
GGVSec/MDG-Code	Not classified.
ICAO/IATA-DGR	Not applicable.
RID/ADR	None.
ADNR	None.

**SECTION 15
 REGULATORY INFORMATION**

Label Information

Classification: The product is not classified as hazardous under Chemicals Hazardous Information and Packaging for Supply (CHIPS 2000).

Risk Phrases: Irritating to eyes, respiratory system and skin (R36/37/38)

Safety Phrases: In case of insufficient ventilation, wear suitable respiratory equipment. Wear eye/face protection. (S38/39)

These products should be used in accordance with the recommendations shown in USG current technical literature.

This Material Safety Data Sheet should not be considered a replacement for the users own workplace risk assessment which is a requirement of The Control of Substances Hazardous to Health (COSHH) Regulations 2002.

ΔWARNING!

Dust/mist created from product may cause eye, skin, nose, throat or upper respiratory irritation. Avoid inhalation of dust/mist and eye contact. Use in a well-ventilated area. Wear a NIOSH/MSHA-approved respirator when dusty/ misty. Use proper ventilation to reduce dust/mist exposure. Prolonged and repeated breathing of respirable talc dust may cause lung disease (pneumoconiosis). Wear eye protection. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call physician. Wash thoroughly with soap and water after use. Do not ingest. If ingested, call physician.

Product safety information: (800) 507-8899 or www.usg.com

KEEP OUT OF REACH OF CHILDREN.



**SECTION 16
OTHER INFORMATION**

Key/Legend

CAS	Chemical Abstracts Service (Registry Number)
IARC	International Agency for Research on Cancer
PPE	Personal Protection Equipment
UN/NA#	United Nations/North America number

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