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SECTION 1
CHEMICAL PRODUCT AND IDENTIFICATION

PRODUCT: Primer Surfacer TUFF-HIDE

CHEMICAL FAMILY: Aqueous emulsion of minerals and vinyl acrylic polymer

SECTION 2
COMPOSITION, INFORMATION ON INGREDIENTS

| MATERIAL | WT% | TLV (mg/m ³) | PEL (mg/m ³) | CAS NUMBER |
|---|-----|--------------------------|--------------------------|--------------------------|
| Blend of minerals and vinyl acrylic latex | >80 | 10 | 15(T)/5(R) | Proprietary ¹ |
| Crystalline Silica | <10 | 0.05(R) | 0.1(R) | 14808-60-7 |
| Mica | <10 | 3(R) | 20 mppcf | 12001-26-2 |
| Ethylene Glycol | <1 | 100 ceiling | (NE) | 107-21-1 |

¹ New Jersey Trade Secret Registry Number (NJTSRN): 80100338-5006

Respirable crystalline silica: IARC: Group 1 carcinogen, NTP: Known human carcinogen. The weight percent for silica represents total quartz and not the respirable fraction.

(T) – Total (R) – Respirable (NE) – Not Established (M) – Mist mppcf - million particles per cubic foot of air

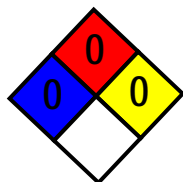
All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory. All components of this product are included in the Canadian Domestic Substances List (DSL).

SECTION 3
HAZARD IDENTIFICATION

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings:

Health: 0
 Fire: 0
 Reactivity: 0



HIMS Ratings:

Health: *0
 Fire: 0
 Reactivity: 0

| | | |
|---------------------|---|---|
| HEALTH | * | 0 |
| FLAMMABILITY | | 0 |
| PHYSICAL HAZARD | | 0 |
| PERSONAL PROTECTION | | E |

0 = Minimal Hazard
 1 = Slight Hazard
 2 = Moderate Hazard
 3 = Serious Hazard
 4 = Severe Hazard

Personal Protection: Use eye and skin protection. Use NIOSH/MSHA-approved respiratory protection when necessary.

*Respirable crystalline silica can cause lung disease and/or cancer. E- Safety glasses, gloves and dust respirator

EMERGENCY OVERVIEW: This product is not expected to produce any unusual hazards during normal use. Exposure to high dust 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.

POTENTIAL HEALTH EFFECTS

ACUTE:

Eyes: Airborne mist or 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.



SECTION 3 HAZARD IDENTIFICATION (continued)

POTENTIAL HEALTH EFFECTS

ACUTE (continued):

Inhalation: Inhalation of mist when spray applying can irritate the nose, throat, and the upper respiratory tract. Breathing of vapors can cause slight headache, dizziness, nausea, drowsiness, and/or stupor. Labored breathing may occur after excessive inhalation. Persons subjected to large amounts of this 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.

Ingestion: If ingested may cause temporary irritation to the gastrointestinal tract, especially the stomach. No known effects.

CHRONIC:

Eyes: None known.

Skin: None known.

Ingestion: No known effects.

Inhalation: 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.

TARGET ORGANS: Eyes, skin and respiratory system.

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

**SECTION 4
 FIRST AID MEASURES**

FIRST AID PROCEDURES

Eyes: In case of contact, do not rub or scratch your eyes. Flush thoroughly with water for 15 minutes to remove particles. 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 action to prevent infection and promote healing. If irritation persists, consult physician.

Inhalation: Remove to fresh air. Leave the area of dust exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.

Ingestion: This product is not intended to be ingested or eaten. No harmful effects expected. No specific recommendations. If gastric disturbance occurs, call physician.

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.

**SECTION 5
 FIRE FIGHTING MEASURES**

| | | | |
|--|--|-------------------------------------|----------------|
| General Fire Hazards: | Not expected to burn. | | |
| 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 & Explosion Hazards: | None | | |
| Hazardous Combustion Products: | 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: | None Known | Auto Ignition: | Not Applicable |
| Method Used: | Not Applicable | Flammability Classification: | Not Applicable |
| Upper Flammable Limit (UFL): | Not Applicable | Rate of Burning: | Not Applicable |
| Lower Flammable Limit (LFL): | Not Applicable | | |

SECTION 6 ACCIDENTAL RELEASE MEASURES

CONTAINMENT:

No special precautions. Wear appropriate personal protection (See Section 8).

CLEAN-UP:

Use normal clean up procedures. Wear appropriate protective equipment. Ventilate area. Floor may be slippery; use care to avoid falling. Shovel or scoop up material from spillage into a waste container for disposal.

DISPOSAL:

Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters. Trace amounts of residue can be flushed to a drain, using plenty of water.

SECTION 7 HANDLING AND STORAGE

HANDLING:

When spray applying, minimize mist generation and accumulation. Avoid breathing mist. Wear the appropriate respiratory protection against mist in poorly ventilated areas and if TLV is exceeded (see Sections 2 and 8). Avoid mist contact with eyes. Wear the appropriate eye protection against mist (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.

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

ENGINEERING CONTROLS:

When spray applying and general ventilation is inadequate to control mist levels below permissible exposure limits (see Section 2) use process enclosures, local exhaust ventilation, or other engineering controls.

If engineering controls are not possible and mist levels exceed permissible exposure limits (see Section 2), wear a properly fitted NIOSH/MSHA-approved respirator (see Respiratory Protection below).

RESPIRATORY PROTECTION:

Wear a NIOSH/MSHA-approved respirator equipped when misty in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

OTHER PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face: Wear eye protection (safety glasses or goggles) to avoid particulate irritation of the eye.

Skin: Gloves or protective clothing are usually not necessary but may be desirable in specific work situations. For brief contact, no precautions other than clean body-covering clothing should be needed. 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 | White | Odor | Mild acrylic odor |
| Physical State | Liquid | pH | ~ 8-9 |
| Vapor Pressure | 17@20 °F | Vapor Density | Same as water |
| Boiling Point | 212 °F | Freezing Point | 32 °F |
| Melting Point | Not Determined | Solubility (H₂O) | Water-based emulsion |
| Specific Gravity | 1.3-1.4 | Particle Size | Not Determined |
| Softening Point | Not Determined | Evaporation Rate | Not Determined |
| Viscosity | Not Determined | Bulk Density | 11-12 lbs/gal |
| Percent Volatile | 48-52 | Molecular Weight | Mixture |
| VOC Content | <125 g/L | | |

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:

Direct contact may cause eye, skin and/or respiratory irritation.

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

CHRONIC EFFECTS / CARCINOGENICITY:

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 ethyl 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.

Industrial hygiene atmospheric formaldehyde testing during the use and application of USG joint compounds did not detect any concentration of formaldehyde exposure.

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.

**SECTION 12
 ECOLOGICAL INFORMATION**

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on the ecology. A large discharge directly into waterways would not be expected to kill aquatic life. **Ecotoxicity value:** Not determined.

**SECTION 13
 DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD:

Dispose of material in accordance with Federal, State, Provincial, and Local regulations. Consult with environmental regulatory agencies for guidance on acceptable disposal practices. Never discharge directly into sewers or surface waters.

**SECTION 14
 TRANSPORT INFORMATION**

U.S. DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not classified or regulated.

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**

UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.

| MATERIAL | WT% | 302 | 304 | 313 | CERCLA | CAA Sec. 112 | RCRA Code |
|--------------------|-----|-----|-----|-----|--------|--------------|-----------|
| Acrylic Polymer | >80 | NL | NL | NL | NL | NL | NL |
| Crystalline Silica | <10 | NL | NL | NL | NL | NL | NL |
| Mica | <10 | NL | NL | NL | NL | NL | NL |
| Ethylene Glycol | <1 | NL | NL | X | 5,000 | NL | NL |

Key: NL = Not Listed

- SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)
- SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)
- SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313
- CERCLA Hazardous Substances: Reportable Quantity (RQ)
- CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)
- RCRA Hazardous Waste: RCRA hazardous waste code

SECTION 15 REGULATORY INFORMATION (continued)
CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. All components of this product are included in the Canadian Domestic Substances List (DSL).

| MATERIAL | WT% | IDL Item # | WHMIS Classification: |
|--------------------|-----|------------|-----------------------|
| Acrylic Polymer | >80 | Not Listed | Not Listed |
| Crystalline Silica | <10 | 1406 | D2A |
| Mica | <10 | 1088 | Not Listed |
| Ethylene Glycol | <1 | 716 | D2A |

IDL Item # : Canadian Hazardous Products Act – Ingredient Disclosure List Item #

WHMIS Classification: Workplace Hazardous Material Information System

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 | NTP | ACGIH | CAL- 65 |
|-----------------------|------|------------|------------|------------|
| Vinyl Acetate Monomer | 2B | Not Listed | A3 | Not Listed |
| Ethyl Acrylate | 2B | Not Listed | Not Listed | Listed |
| Acetaldehyde | 2B | 2 | A3 | Listed |
| Formaldehyde | 2A | 2 | A2 | Listed |
| 1, 4 Dioxane | 2B | 2 | A3 | Listed |

IARC – International Agency for Research on Cancer (World Health Organization)

- 1- Carcinogenic to humans
- 2A – Probably carcinogenic to humans
- 2B – Possibly carcinogenic to humans
- 3 - Not classifiable as a carcinogen
- 4 – Probably not a carcinogen

NTP – National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS)

- 1- Known to be carcinogen
- 2- Anticipated to be carcinogens

ACGIH – American Conference of Governmental Industrial Hygienists

- A1 – Confirmed human carcinogen
- A2 – Suspected human carcinogen
- A3 – Animal carcinogen
- A4 - Not classifiable as a carcinogen
- A5 – Not suspected as a human carcinogen

CAL-65 – California Proposition 65 “Chemicals known to the State of California to Cause Cancer”

SECTION 16
OTHER INFORMATION

Label Information

ΔWARNING!

Mist created from product may cause eye, skin, nose, throat or upper respiratory irritation. When spray applying, avoid inhalation of mist and eye contact. Use in a well-ventilated area. Wear a NIOSH/MSHA-approved respirator when misty. Use proper ventilation to reduce mist exposure. 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. Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Close container and discard properly.

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

KEEP OUT OF REACH OF CHILDREN.

Key/Legend

| | |
|--------|--|
| TLV | Threshold Limit Value |
| PEL | Permissible Exposure Limit |
| CAS | Chemical Abstracts Service (Registry Number) |
| NIOSH | National Institute for Occupational Safety and Health |
| MSHA | Mine Safety and Health Administration |
| OSHA | Occupational Health and Safety Administration |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| IARC | International Agency for Research on Cancer |
| DOT | United States Department of Transportation |
| EPA | United States Environmental Protection Agency |
| NFPA | National Fire Protection Association |
| HMIS | Hazardous Materials Identification System |
| PPE | Personal Protection Equipment |
| TSCA | Toxic Substances Control Act |
| DSL | Canadian Domestic Substances List |
| NDSL | Canadian Non-Domestic Substances List |
| SARA | Superfund Amendments and Reauthorization Act of 1986 |
| RCRA | Resource Conservation and Recovery Act |
| CERCLA | Comprehensive Environmental Response, Compensation and Liability Act of 1980 |
| UN/NA# | United Nations/North America number |
| CFR | Code of Federal Regulations |
| WHMIS | Workplace Hazardous Material Information System |

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