



MATERIAL SAFETY DATA SHEET RAPID FLOOR UNDERLAYMENTS

MSDS No. 100
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Maxxon® Corporation
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SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Material Name: Maxxon Underlayments
Trade Name: Rapid Floor® Underlayment 43B-14690
Rapid Floor® Plus 43B-14691
Rapid Floor® Ultra 43B-14692
Rapid Radiant® 43B-14693
Commercial Topping® 43B-14268

Description: Industrial Plasters
Chemical Emergency or information, call: Maxxon Corporation, 763-478-9600 (Q.A. Department) or Chem-Trec at 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

HMIS® ratings Health: 1*
Flammability: 0
Physical hazard: 1

NFPA ratings Health: 1
Flammability: 0
Instability: 0

Hazard Scale: 0 = minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Emergency Overview

CAUTION! A natural chemical reaction during hardening (rehydration) develops sufficient heat that may cause severe burns in the event of contact with skin. These burns may possibly result in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Crushing, mixing, sanding or otherwise working with this product may generate large amounts of dust. Dust can be irritating to the eyes, skin and respiratory system.

Potential Health Effects

Routes of Exposure: Inhalation. Skin contact. Eye contact. Ingestion.

Eyes: Dust can cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin: Skin contact during hardening (rehydration) may slowly develop sufficient heat to cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with the skin. Handling can cause dry skin.



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Ingestion: Not applicable under normal conditions of use. May result in obstruction and temporary irritation of the digestive tract.

Inhalation: Dust may cause respiratory tract irritation.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS# | Percent |
|-------------------------------|------------|----------|
| Gypsum (Calcium Sulfate) | 10101-41-4 | 60-100 |
| Portland Cement | 65997-15-1 | 3-7 |
| Calcium Oxide | 1305-78-8 | 1-5 |
| Amorphous Silica | 7631-86-9 | 1-5 |
| Aluminum Oxide | 1344-28-1 | 1-5 |
| Iron Oxide | 1309-37-1 | 1-5 |
| Crystalline Silica (Quartz) | 14808-60-7 | 0.5-1.5* |
| Magnesium Oxide | 1309-48-4 | 0.5-1.5 |
| Sulfur Trioxide | 7446-11-9 | 0.1-1 |
| Limestone (Calcium Carbonate) | 1317-65-3 | 0.1-1 |
| Titanium Dioxide | 13463-67-7 | 0.1-1 |
| Boric Acid | 10043-35-3 | 0.1-1 |

Composition comments: This product contains fly ash. Hazardous components of fly ash are listed in the table above.

Gypsum (calcium sulfate), Limestone (calcium carbonate), Portland cement, and fly ash contain naturally occurring crystalline silica (quartz) which is listed as a lung carcinogen. This product also contains titanium dioxide, which is listed as a possible lung carcinogen. See Section 8 for exposure information and Section 11 for toxicological information.

*The weight percent for crystalline silica represents total crystalline silica and not the respirable fraction. Testing conducted by Georgia-Pacific did not detect respirable crystalline silica during activities associated with the normal use of this product: however, jobsite air monitoring should be conducted to determine actual exposure when permissible exposure limits may be exceeded.

SECTION 4 FIRST AID MEASURES

First Aid Procedures

- Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
- Skin contact** For skin contact, wash immediately with soap and water. Get medical attention if irritation develops or persists.
- Inhalation** Remove to fresh air. If symptoms persist, obtain medical attention
- Ingestion** May result in obstruction and irritation if ingested. Get medical attention.



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SECTION 5 FIRE FIGHTING MEASURES

| | |
|--|--|
| Flammable properties | Not flammable by OSHA/WHMIS criteria |
| Extinguishing media | |
| Suitable extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment |
| Protection of firefighters | |
| Protective equipment and precautions for firefighters | Firefighters should wear full protective clothing including self-contained breathing apparatus. |
| Explosion data | |
| Sensitivity to static discharge | Not applicable |
| Sensitivity to mechanical impact | Not applicable |
| Hazardous combustion products | May include, and are not limited to: calcium oxide, sulfur dioxide, magnesium dioxide, magnesium oxide, aluminum oxide, and sulfur trioxide. |

SECTION 6 ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|---|
| Personal precautions | Use personal protection recommended in Section 8. Keep unnecessary personnel away from the release. |
| Environmental precautions | Keep out of drains, sewers, ditches, and waterways. |
| Methods of containment | Contain the spill, then place in a suitable container. Minimize dust generation. |
| Methods of clean up | Sweep up or gather material and place in appropriate container for disposal. |

SECTION 7 HANDLING AND STORAGE

| | |
|-----------------|--|
| Handling | Avoid contact with skin and eyes. Use only in well-ventilated areas. Handle and open container with care. Wear appropriate NIOSH approved dust mask or filtering facepiece if dust is generated. When using, do not eat or drink. Wash hands before eating, drinking or smoking. |
| Storage | Keep the container tightly closed and dry. Store in a covered, dry, climate controlled area, away from incompatibles. |



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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Gypsum (calcium sulfate) (CAS# 10101-41-4)

| | TWA | STEL | Ceiling |
|--------------|--|-----------------|-----------------|
| ACGIH | 10 mg/m ³ TWA inhalable fraction; | Not established | Not established |
| OSHA | 15 mg/m ³ TWA total dust; 5 mg/m ³ TWA respirable fraction | Not established | Not established |

Portland Cement (CAS# 65997-15-1)

| | TWA | STEL | Ceiling |
|--------------|---|-----------------|-----------------|
| ACGIH | 10 mg/m ³ TWA (respirable fraction, particulate matter containing no asbestos and <1% crystalline silica | Not established | Not established |
| OSHA | 15 mg/m ³ TWA total dust; 5 mg/m ³ TWA respirable fraction | Not established | Not established |

Calcium Oxide (CAS# 1305-78-8)

| | TWA | STEL | Ceiling |
|--------------|-------------------------|-----------------|-----------------|
| ACGIH | 2 mg/m ³ TWA | Not established | Not established |
| OSHA | 5 mg/m ³ TWA | Not established | Not established |

Amorphous Silica (CAS# 7631-86-9)

| | TWA | STEL | Ceiling |
|--------------|-----------------|-----------------|-----------------|
| ACGIH | Not established | Not established | Not established |
| OSHA | Not established | Not established | Not established |

Aluminum Oxide (CAS# 1344-28-1)

| | TWA | STEL | Ceiling |
|--------------|--|-----------------|-----------------|
| ACGIH | Not established | Not established | Not established |
| OSHA | 15 mg/m ³ TWA total dust; 5 mg/m ³ TWA respirable fraction | Not established | Not established |

Iron Oxide (CAS# 1309-37-1)

| | TWA | STEL | Ceiling |
|--------------|---|-----------------|-----------------|
| ACGIH | 5 mg/m ³ TWA respirable fraction | Not established | Not established |
| OSHA | 10 mg/m ³ TWA fume | Not established | Not established |



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| | | | |
|---|--|-----------------|-----------------|
| Crystalline silica (quartz) (CAS# 14808-60-7) | | | |
| | TWA | STEL | Ceiling |
| ACGIH | 0.025 mg/m ³ TWA respirable fraction | Not established | Not established |
| OSHA | ((10)/(%SiO ₂ + 2) mg/m ³ TWA (respirable)); ((30)/(%SiO ₂ + 2) mg/m ³ TWA (total dust)); ((250)/(%SiO ₂ + 5) mppcf TWA (respirable)) | Not established | Not established |
| Magnesium Oxide (CAS# 1309-48-4) | | | |
| | TWA | STEL | Ceiling |
| ACGIH | 10 mg/m ³ TWA inhalable fraction | Not established | Not established |
| OSHA | 15 mg/m ³ TWA total particulate | Not established | Not established |
| Sulfur Trioxide (CAS# 7446-11-9) | | | |
| | TWA | STEL | Ceiling |
| ACGIH | Not established | Not established | Not established |
| OSHA | Not established | Not established | Not established |
| Limestone (Calcium Carbonate) (CAS# 1317-65-3) | | | |
| | TWA | STEL | Ceiling |
| ACGIH | Not established | Not established | Not established |
| OSHA | 15 mg/m ³ TWA total dust 5 mg/m ³ TWA respirable fraction | Not established | Not established |
| Titanium Dioxide (CAS# 13463-67-7) | | | |
| | TWA | STEL | Ceiling |
| ACGIH | 10 mg/m ³ TWA | Not established | Not established |
| OSHA | 15 mg/m ³ TWA total dust | Not established | Not established |
| Boric Acid (CAS# 10043-35-3) | | | |
| | TWA | STEL | Ceiling |
| ACGIH | 2 mg/m ³ TWA inhalable fraction | Not established | Not established |
| OSHA | Not established | Not established | Not established |

Exposure Guidelines *The weight percent for crystalline silica represents total crystalline silica and not the respirable fraction. Testing conducted by Georgia-Pacific did not detect respirable crystalline silica during activities associated with the normal use of this product: however, jobsite air monitoring should be conducted to determine actual exposure when permissible exposure limits may be exceeded.

Engineering Controls When using product, provide local and general exhaust ventilation to keep airborne dust concentrations below exposure limits. Use wet methods, if appropriate, to reduce the generation of dust.



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Personal Protective Equipment

Eye protection Safety glasses or goggles are recommended when using product. Ensure compliance with OSHA's PPE standard (29 CFR 1910.132 and .133) for eye and face protection. Safety shower/eye wash fountain must be readily available in the workplace area (29 CFR 1010.151 (c)).

Skin and body protection

Impervious protective clothing and gloves recommended to prevent drying or irritation of hands. Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and .138 (hand protection)). Safety shower/eye wash fountain must be readily available in the workplace area (29 CFR 1910.151 (c)).

Respiratory Protection

A NIOSH approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder

Color: Grey

Form: Solid

Odor: Odorless

Odor threshold: Not available

Physical state: Solid

Specific gravity: 2.26-2.3

Melting point: Not available

Freezing point: Not available

Boiling point: Not available

Flash point: Not available

Auto-ignition temperature: Not applicable

Flammability: Not Flammable

Flammability limits in air, upper, % by volume: Not applicable

Flammability limits in air, lower % by volume: Not applicable

Vapor pressure: Not applicable

Vapor density: Not applicable

Relative density: Not available

Solubility (water): 0.2% @ 22°C

Partition coefficient

(n-octanol/water): Not available

Evaporation rate: Not available

Decomposition temperature: Not available

SECTION 10 CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability:

Stable at normal conditions

Conditions of reactivity:

Reacts with water (normal condition of use)

Incompatible materials:

Acids

Hazardous decomposition products:

May include, and are not limited to: calcium oxide, sulfur dioxide, magnesium oxide, aluminum oxide, and sulfur trioxide.



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SECTION 11 TOXICOLOGICAL INFORMATION

Component analysis - LD50

ALUMINUM OXIDE (CAS# 1344-28-1)

Toxicology Data – Selected LD50s and LC50s

Oral LD50 Rat: >5000 mg/kg

AMORPHOUS SILICA (CAS# 7631-86-9)

Toxicology Data – Selected LD50s and LC50s

Oral LD50 Rat: >5000 mg/kg; Inhalation LC50

Rat: >2.2 mg/L/1H

Dermal LD50 Rabbit: >2000 mg/kg

BORIC ACID (CAS# 10043-35-3)

Toxicology Data – Selected LD50s and LC50s

Oral LD50 Rat: 2660 mg/kg; Inhalation LC50

Rat: >0.16 mg/L/4H

Dermal LD50 Rabbit: >2000 mg/kg

CALCIUM OXIDE (CAS# 1305-78-8)

Toxicology Data – Selected LD50s and LC50s

Oral LD50 Rat: 500 mg/kg

CRYSTALLINE SILICA (QUARTZ) (CAS# 14808-60-7)

Toxicology Data – Selected LD50s and LC50s

Oral LD50 Rat: 500 mg/kg

GYPSUM (CALCIUM SULFATE) (CAS# 7778-18-9)

Toxicology Data – Selected LD50s and LC50s

Oral LD50 Rat: >3000 mg/kg

IRON OXIDE (CAS# 1309-37-1)

Toxicology Data – Selected LD50s and LC50s

Oral LD50 Rat: >10000 mg/kg

SULFUR TRIOXIDE (CAS# 7446-11-9)

Toxicology Data – Selected LD50s and LC50s

Inhalation LC50 Rat: 0.375 mg/L/4H;

Inhalation LC50 Rat: 1.2 mg/L/1H

TITANIUM DIOXIDE (CAS# 13463-67-7)

Toxicology Data – Selected LD50s and LC50s

Oral LD50 Rat: >10000 mg/kg

Routes of exposure: Inhalation. Skin contact. Eye contact.

Sensitization: Not expected to be hazardous by OSHA/WHMIS criteria

Chronic effects: Hazardous by OSHA/WHMIS criteria.

Respirable titanium dioxide from occupational sources has been classified by IARC as a possible lung carcinogen to humans. Human studies do not suggest an association between occupational exposure to titanium dioxide and an increased risk for cancer. Evidence showed that high concentrations caused respiratory tract cancer in rats exposed by inhalation and intratracheal instillation.



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Sulfur trioxide has not been classified for carcinogenic effects. However, IARC concluded that occupational exposure to strong inorganic mists containing sulfuric acid, formed from sulfur trioxide reacted with water, is carcinogenic to humans. The ACGIH has classified strong inorganic acid mist containing sulfuric acid as a suspected human carcinogen. Exposure to inorganic acid mist (sulfuric acid mist) in this product will not occur because inorganic acid is not generated under normal conditions of use of this material.

Carcinogenicity: Hazardous by OSHA/WHMIS criteria.

TITANIUM DIOXIDE (CAS# 13463-67-7)

| | |
|---|---|
| IARC – Group 2B (Possibly Carcinogenic to Humans) | Monograph 93 [in preparation], Monograph 47 [1989] |
| U.S. – OSHA – Hazard Communications Carcinogens | Present |

| | |
|------------------------------|--|
| Mutagenicity | Not expected to be hazardous by OSHA/WHMIS criteria. |
| Reproductive effects | Not expected to be hazardous by OSHA/WHMIS criteria. |
| Teratogenicity | Not expected to be hazardous by OSHA/WHMIS criteria. |
| Synergistic materials | Not available |

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Large quantities of this product may be harmful to aquatic life due to high pH.

AMORPHOUS SILICA (CAS# 7631-86-9)

| | |
|--|---|
| Ecotoxicity – Freshwater Algae Data | 72 Hr EC50 Pseudokirchneriella subcapitata: 440 mg/L |
| Ecotoxicity – Freshwater Fish Species Data | 96 Hr LC50 Brachydanio rerio 5000 mg/L (static) |

BORIC ACID (CAS# 10043-35-3)

| | |
|--|---|
| Ecotoxicity – Freshwater Fish Species Data | 72 Hr LC50 Carassius auratus: 1020 mg/L [flow-through] |
|--|---|

CALCIUM OXIDE (CAS# 1305-78-8)

| | |
|--|--|
| Ecotoxicity – Freshwater Fish Species Data | 96 Hr LC50 Cyprinus carpio: 1070 mg/L [static] |
|--|--|

GYPHUM (CALCIUM SULFATE) (CAS# 10101-41-4)

| | |
|--|--|
| Ecotoxicity – Freshwater Fish Species Data | 96 Hr LC50 Lepomis macrochirus: 2980 mg/L [static] |
| | 96 Hr LC50 Pimephales promelas: >1970 mg/L [static] |



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SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Instructions:

This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

SECTION 14 TRANSPORTATION INFORMATION

Department of Transportation (DOT) Requirements

This product is not regulated as a hazardous material by the United States (DOT) transportation regulations.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

SECTION 15 REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 (SARA)

| | |
|--|---|
| Hazard categories | Immediate Hazard – Yes Delayed Hazard – Yes Fire Hazard – No. Pressure Hazard – No Reactivity Hazard – No |
| Section 302 extremely hazardous substance | Yes |
| Section 311 hazardous chemical | Yes |
| Section 313 hazardous chemical | No |

California Proposition 65

WARNING: This product contains chemicals at concentrations less than 0.1% that are known to the state of California to cause cancer.

US Federal Regulations

ALUMINUM OXIDE (CAS# 1344-28-1)

U.S. – CERCLA/SARA – Section 313 – Emission Reporting 1.0% de minimus concentration (fibrous forms)



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Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR

Canada – WHMIS – Ingredient Disclosure List

| | | |
|--------------------------------|------------|----|
| Aluminum Oxide | 1344-28-1 | 1% |
| Amorphous Silica | 7631-86-9 | 1% |
| Boric Acid | 10043-35-3 | 1% |
| Calcium Oxide | 1305-78-8 | 1% |
| Crystalline Silica (Quartz) | 14808-60-7 | 1% |
| Iron Oxide | 1309-37-1 | 1% |
| Magnesium Oxide | 1309-48-4 | 1% |
| Sulfur Trioxide | 7446-11-9 | 1% |

Inventory status

| Country(s) or region | Inventory name | Compliant w/ inventory requirements (yes/no) |
|-----------------------------|---|--|
| Canada | Domestic Substances List (DSL) | Yes |
| | Non-Domestic Substances List (NDSL) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

SECTION 16 OTHER INFORMATION

Product List

| | |
|---------------------------------|---------------|
| Gyp-Crete | BR-250, 253 |
| Therma-Floor | BR/CNJ/NV-257 |
| Dura-Cap | BR/CNJ/NV-254 |
| Gyp-Crete 2000/3.2K | BR/CNJ/NV-258 |
| Gyp-Crete Floor Underlayment LC | CNJ/NV-251 |
| Rapid Floor | BR/CNJ/NV-690 |
| Rapid Floor Plus | BR/CNJ/NV-691 |
| Rapid Floor Ultra | BR/CNJ/NV-692 |
| Rapid Radiant | BR/CNJ/NV-693 |
| Therma-Floor Blue Bag | NV-259 |
| Commercial Topping | BR/NV-268 |
| Ortcrete Floor Underlayment | BR/NV-695 |



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Disclaimer

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