SAFETY DATA SHEET

Section 1. Identification

Product name

GREEN BARRIER

Product type: Liquid.Relevant identified uses of the substance or mixture and uses advised againstNot applicable.

| Manufacturer | : MULTICOAT CORPORATION |
|--------------|---------------------------------|
| | 23331 ANTONIO PARKWAY |
| | RANCHO SANTA MARGARITA CA 92688 |
| | |

Emergency telephone : 1-877-685-8426 number of the company

| Section 2. Hazard | s identification |
|---|--|
| OSHA/HCS status | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Classification of the substance or mixture | : SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A |
| | Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 36.2% |
| <u>GHS label elements</u> | |
| Hazard pictograms | |
| Signal word | : Danger |
| Hazard statements | : May cause an allergic skin reaction. May cause cancer. |
| Precautionary statements | |
| General | : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. |
| Prevention | : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Avoid breathing vapor. Contaminated work clothing should not be allowed out of the workplace. |

Section 2. Hazards identification

| Response | IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. | | | |
|-------------------------------------|--|--|--|--|
| Storage | : Store locked up. | | | |
| Disposal | Dispose of contents and container in accordance with all local, regional, national and international regulations. | | | |
| Supplemental label elements | WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure. Please refer to the SDS for additional information. Do not transfer contents to other containers for storage. | | | |
| Hazards not otherwise classified | : None known. | | | |

Section 3. Composition/information on ingredients

| Substance/mixture | : Mixture |
|----------------------------------|------------------|
| Other means of identification | : Not available. |

CAS number/other identifiers

| Ingredient name | % by weight | CAS number |
|------------------------------|-------------|------------|
| Titanium Dioxide | 13.1 | 13463-67-7 |
| zinc oxide | 4.4 | 1314-13-2 |
| Cristobalite | 1.2 | 14464-46-1 |
| Pentamethyliperidyl Sebacate | 0.1 | 41556-26-7 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

| Eye contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
|--------------|---|
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. |

Section 4. First aid measures

| Ingestion | : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing | | | |
|-----------------------------|---|--|--|--|
| | such as a collar, tie, belt or waistband. | | | |
| Most important symptoms/e | ffects acute and delayed | | | |
| Potential acute health effe | | | | |
| Eve contact | : No known significant effects or critical hazards. | | | |
| Inhalation | : No known significant effects or critical hazards. | | | |
| Skin contact | : May cause an allergic skin reaction. | | | |
| Ingestion | : No known significant effects or critical hazards. | | | |
| Over-exposure signs/symp | 5 | | | |
| Eye contact | No specific data. | | | |
| Inhalation | : No specific data. | | | |
| Skin contact | : Adverse symptoms may include the following: irritation redness | | | |
| Ingestion | : No specific data. | | | |
| | | | | |
| | lical attention and special treatment needed, if necessary | | | |
| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. | | | |
| Specific treatments | : No specific treatment. | | | |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. | | | |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| Extinguishing media | | | | | |
|--|---|--|--|--|--|
| Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. | | | | |
| Unsuitable extinguishing media | : None known. | | | | |
| Specific hazards arising from the chemical | : In a fire or if heated, a pressure increase will occur and the container may burst. | | | | |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: metal oxide/oxides | | | | |
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. | | | | |
| Date of issue/Date of revision | : 6/19/2015. Date of previous issue : 6/16/2015. Version : 1.03 3/11 | | | | |

Section 5. Fire-fighting measures

Special protective
equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing
apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

| Personal precautions, protect | pment and emergency procedures | |
|--------------------------------|---|---|
| For non-emergency personnel | tion shall be taken involving any personal risuate surrounding areas. Keep unnecessary ing. Do not touch or walk through spilled ma de adequate ventilation. Wear appropriate r quate. Put on appropriate personal protectiv | and unprotected personnel from terial. Avoid breathing vapor or mist. espirator when ventilation is |
| For emergency responders | cialised clothing is required to deal with the s on 8 on suitable and unsuitable materials. S gency personnel". | |
| Environmental precautions | dispersal of spilled material and runoff and ewers. Inform the relevant authorities if the ion (sewers, waterways, soil or air). | |
| Methods and materials for co | <u>nt and cleaning up</u> | |
| Small spill | leak if without risk. Move containers from sp er-soluble. Alternatively, or if water-insoluble in an appropriate waste disposal container. sal contractor. | e, absorb with an inert dry material and |

| Large spill | : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see |
|-------------|--|
| | Section 1 for emergency contact information and Section 13 for waste disposal. |

Section 7. Handling and storage

| Precautions for safe handling | 1 | | | | | | | |
|--|---|---|---|---|---|---|---|---|
| Protective measures | : | history of ski this product handle until or on skin or use the mate wear approp made from a | in sensitizat is used. Av all safety pr clothing. E erial presen riate respira compatible | ion problems s oid exposure - ecautions have to not ingest. A ts a respiratory ator. Keep in the material, kept | should not be en obtain special i been read and Avoid breathing hazard, use on he original conta t tightly closed w | e Section 8). Person nployed in any pro- nstructions before understood. Do vapor or mist. If ly with adequate ainer or an approvi- then not in use. If reuse container. | ocess in w e use. Do not get in during nor ventilation ved alterna | hich not eyes mal or ative |
| Advice on general occupational hygiene | : | handled, sto drinking and | red and pro smoking. I | cessed. Work Remove contai | ers should wash minated clothing | areas where this n n hands and face g and protective e al information on | before ea quipment | |
| Conditions for safe storage, including any incompatibilities | : | direct sunlig (see Section and sealed u resealed and | ht in a dry, o 10) and foo Intil ready fo kept uprig | cool and well-ve od and drink. S or use. Contain ht to prevent le | entilated area, a Store locked up. ners that have b | iginal container p way from incomp Keep container een opened mus store in unlabeled contamination. | atible mat tightly clos t be carefu | erials sed ully |
| Date of issue/Date of revision | | : 6/19/2015. | Date of prev | ious issue | : 6/16/2015. | Version | :1.03 | 4/11 |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|------------------|---|
| Titanium Dioxide | ACGIH TLV (United States, 4/2014). |
| | TWA: 10 mg/m ³ 8 hours. |
| | OSHA PEL (United States, 2/2013). |
| | TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| zinc oxide | NIOSH REL (United States, 10/2013). |
| | CEIL: 15 mg/m ³ Form: Dust |
| | TWA: 5 mg/m ³ 10 hours. Form: Dust and |
| | fumes |
| | STEL: 10 mg/m ³ 15 minutes. Form: Fume |
| | OSHA PEL (United States, 2/2013). |
| | TWA: 5 mg/m ³ 8 hours. Form: Fume |
| | TWA: 5 mg/m ³ 8 hours. Form: Respirable |
| | fraction |
| | TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| | ACGIH TLV (United States, 4/2014). |
| | TWA: 2 mg/m ³ 8 hours. Form: Respirable |
| | fraction |
| | STEL: 10 mg/m ³ 15 minutes. Form: |
| | Respirable fraction |
| Cristobalite | OSHA PEL Z3 (United States, 2/2013). |
| | TWA: 250 MPPCF / 2 x (%SiO2+5) 8 hours. |
| | Form: Respirable |
| | TWA: 10 MG/M3 / 2 x (%SiO2+2) 8 hours. |
| | Form: Respirable |
| | TWA: 30 MG/M3 / 2 x (%SiO2+2) 8 hours. |
| | Form: Total dust |

| Appropriate engineering controls | If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. |
|----------------------------------|---|
| Environmental exposure controls | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |
| Individual protection measure | <u>b</u> |
| Hygiene measures | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Eye/face protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |
| Skin protection | |

Section 8. Exposure controls/personal protection

| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
|------------------------|--|
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |

Section 9. Physical and chemical properties

| Appearance | | |
|--|---|--|
| Physical state | 1 | Liquid. |
| Color | 1 | Green |
| Odor | 1 | paint like. |
| Odor threshold | 1 | Not available. |
| рН | 1 | 9.5 |
| Melting point | 1 | Not available. |
| Boiling point | 1 | 100°C (212°F) |
| Flash point | 1 | Closed cup: >93.3°C (>199.9°F) |
| Evaporation rate | 1 | 0.09 (butyl acetate = 1) |
| Flammability (solid, gas) | 4 | Not available. |
| Lower and upper explosive (flammable) limits | : | Not available. |
| Vapor pressure | 1 | 0.31 kPa (2.333 mm Hg) [at 20°C] |
| Vapor density | 1 | 1 [Air = 1] |
| Relative density | 1 | 1.37 |
| Solubility | 1 | Not available. |
| Partition coefficient: n- octanol/water | : | Not available. |
| Auto-ignition temperature | 1 | Not available. |
| Decomposition temperature | 1 | Not available. |
| Viscosity | : | Kinematic (room temperature): >0.205 cm²/s (>20.5 cSt) Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 cSt) |
| Aerosol product | | |
| Heat of combustion | : | 0.000001365 kJ/g |

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Section 10. Stability and reactivity

| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
|------------------------------------|--|
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : No specific data. |
| Incompatible materials | : No specific data. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | • |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|----------------------|---------|-------|--|-------------|
| Titanium Dioxide | Skin - Mild irritant | Human | - | 72 hours 300 Micrograms Intermittent | - |
| zinc oxide | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|---------------------------------|
| Titanium Dioxide | - | 2B | - |
| Cristobalite | - | 1 | Known to be a human carcinogen. |

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Date of issue/Date of revision

: 6/19/2015. Date of previous issue

: 6/16/2015.

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Section 11. Toxicological information

| Asp | iration | hazard |
|-----|---------|--------|
| _ | | |

Not available.

| Information on the likely routes of exposure | : Not available. |
|--|---|
| Potential acute health effe | <u>cts</u> |
| Eye contact | : No known significant effects or critical hazards. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |
| | |
| | physical, chemical and toxicological characteristics |
| Eye contact | : No specific data. |
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: |
| | irritation redness |
| Ingestion | No specific data. |
| • | |
| Delayed and immediate ef | fects and also chronic effects from short and long term exposure |
| Short term exposure | |
| Potential immediate | : Not available. |
| effects | |
| Potential delayed effects | : Not available. |
| Long term exposure | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Potential chronic health ef | |
| Not available. | |
| | |
| General | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity | : May cause cancer. Risk of cancer depends on duration and level of exposure. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Teratogenicity | : No known significant effects or critical hazards. |
| Developmental effects | : No known significant effects or critical hazards. |
| Fertility effects | : No known significant effects or critical hazards. |
| | |

Numerical measures of toxicity Acute toxicity estimates Not available.

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--------------------------------|--|--|----------------------------------|
| Titanium Dioxide zinc oxide | Acute LC50 >1000000 µg/l Marine water Acute IC50 1.85 mg/l Marine water Acute IC50 46 µg/l Fresh water | Fish - Fundulus heteroclitus Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata - Exponential growth phase | 96 hours 96 hours 72 hours |
| | Acute LC50 98 μg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 1.1 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |

Persistence and degradability

Not available.

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-------|-----------|
| Titanium Dioxide | - | 352 | low |
| zinc oxide | - | 60960 | high |

Mobility in soil

| Soil/water partition | : Not available. |
|----------------------|------------------|
| coefficient (Koc) | |

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | ΙΑΤΑ | IMDG |
|-------------------------------|-----------------------|-----------------------|--------------------------|----------------|----------------|
| UN number | Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name | - | - | - | - | - |
| Transport hazard class(es) | - | - | - | - | - |
| ate of issue/Date of rev | vision : 6/19/2 | 015. Date of previous | issue : 6/16/201 | 25 Ve | rsion : 1.03 |

| Section 14. Transport information | | | | | |
|-----------------------------------|---|---|--|--|--|
| Packing group | - | - | - | - | - |
| Environmental hazards | No. | No. | No. | No. | No. |
| Additional information | <u>Special</u> <u>provisions</u> Not Applicable | <u>Special</u> <u>provisions</u> Not Applicable | <u>Special</u> provisions Not Applicable | <u>Special</u> provisions Not Applicable | <u>Emergency</u> <u>schedules (EmS)</u> F-A, S-F |

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

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U.S. Federal regulations

State regulations

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.