MOTORACTIVE

Chemwatch: **4910-93** Version No: **7.1.1.1**

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 01/09/2015 Print Date: 03/09/2015 Initial Date: Not Available S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

| Product name | Meguiar's G11 - Clay Bar For Quik Detailing System | |
|----------------------------------|--|--|
| Synonyms | Product Code: G11, C2000 | |
| Other means of identification | Not Available | |
| Identification | | |

Relevant identified uses of the substance or mixture and uses advised against

| Relevant identified uses | Use according to manufacturer's directions. Cleaning agent. |
|--------------------------|--|
| | |

Details of the supplier of the safety data sheet

| Registered company name | MOTORACTIVE | Meguiars |
|-------------------------|---|--|
| Address | 35 Slough Business Park, Holker Street Silverwater 2128 NSW Australia | 17991 Mitchell South Irvine 92714 CA United States |
| Telephone | +61 2 9737 9422; 1800 350 622 | +1 949 752 8000; +1 800 347 5700 |
| Fax | +61 2 9737 9414 | +1 949 752 5784 |
| Website | www.motoractive.com.au | http://www.meguiars.com/ |
| Email | andrew.spira@motoractive.com.au | Not Available |

Emergency telephone number

| Association / Organisation | Not Available | Not Available |
|-----------------------------------|---------------|---------------|
| Emergency telephone numbers | Not Available | Not Available |
| Other emergency telephone numbers | Not Available | Not Available |

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

CHEMWATCH HAZARD RATINGS

| | Min | Max | |
|--------------|-----|-----|-------------------------|
| Flammability | 0 | | 1 |
| Toxicity | 0 | | 0 = Minimum |
| Body Contact | 2 | | 1 = Low 2 = Moderate |
| Reactivity | 0 | | 3 = High |
| Chronic | 0 | | 4 = Extreme |

| Poisons Schedule | Not Applicable | |
|-----------------------------------|--|--|
| GHS Classification ^[1] | Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, STOT - SE (Resp. Irr.) Category 3 | |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI | |

Label elements

GHS label elements

WARNING

SIGNAL WORD

Hazard statement(s)

| H315 | Causes skin irritation | |
|------|----------------------------------|--|
| H319 | Causes serious eye irritation | |
| H335 | May cause respiratory irritation | |

Supplementary statement(s)

Not Applicable

CLP classification (additional)

Not Applicable

Precautionary statement(s) Prevention

| P271 | Use only outdoors or in a well-ventilated area. | |
|------|---|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. | |
| P280 | P280 Wear protective gloves/protective clothing/eye protection/face protection. | |

Precautionary statement(s) Response

| P362 | Take off contaminated clothing. | |
|----------------|--|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | |
| P312 | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. | |
| P337+P313 | If eye irritation persists: Get medical advice/attention. | |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap | |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. | |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. | |

Precautionary statement(s) Storage

| P405 | Store locked up. |
|-----------|--|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|------------|-----------|-----------------------|
| 1317-65-3 | 20-30 | limestone |
| 13463-67-7 | 1-10 | titanium dioxide |
| 1309-48-4 | 1-10 | magnesium oxide |
| 471-34-1 | 1-10 | calcium carbonate |
| 1332-58-7 | 1-10 | kaolin |
| 637-12-7 | 1-10 | aluminium tristearate |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

| Eye Contact | If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
|--------------|--|
| Skin Contact | If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. |
| Inhalation | If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. |
| Ingestion | If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. |

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Fire Incompatibility

Extinguishing media

| There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area. |
|--|
|--|

Special hazards arising from the substrate or mixture

None known.

| Advice for firefighters | |
|-------------------------|--|
| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. |
| Fire/Explosion Hazard | Non combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous fumes. |

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| Minor Spills | Remove all ignition sources. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Use dry clean up procedures and avoid generating dust. Place in a suitable, labelled container for waste disposal. |
|--------------|---|
| Major Spills | Moderate hazard. CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing. Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible. IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal. ALWAYS: Wash area down with large amounts of water and prevent runoff into drains. If contamination of drains or waterways occurs, advise Emergency Services. |
| | Personal Protective Equipment advice is contained in Section 8 of the SDS. |

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

| Precautions for safe hand | ling |
|---------------------------|--|
| Safe handling | Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this MSDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. |
| Other information | Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this MSDS. For major quantities: Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and strearms). Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities. |

Suitable container Storage incompatibility Polyethylene or polypropylene container.
Check all containers are clearly labelled and free from leaks.
None known

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|------------------------------|-----------------------|------------------------|----------|---------------|---------------|---------------|
| Australia Exposure Standards | limestone | Calcium carbonate (a) | 10 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | titanium dioxide | Titanium dioxide (a) | 10 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | magnesium oxide | Magnesium oxide (fume) | 10 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | calcium carbonate | Calcium carbonate (a) | 10 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | kaolin | Kaolin (a) | 10 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | aluminium tristearate | Stearates (a) (d) | 10 mg/m3 | Not Available | Not Available | Not Available |

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|-------------------|---|----------|-----------|------------|
| limestone | Limestone; (Calcium carbonate; Dolomite) | 27 mg/m3 | 27 mg/m3 | 1300 mg/m3 |
| limestone | Carbonic acid, calcium salt | 45 mg/m3 | 210 mg/m3 | 1300 mg/m3 |
| titanium dioxide | Titanium oxide; (Titanium dioxide) | 10 mg/m3 | 10 mg/m3 | 10 mg/m3 |
| magnesium oxide | Magnesium oxide | 22 mg/m3 | 22 mg/m3 | 130 mg/m3 |
| calcium carbonate | Limestone; (Calcium carbonate; Dolomite) | 27 mg/m3 | 27 mg/m3 | 1300 mg/m3 |
| calcium carbonate | Carbonic acid, calcium salt | 45 mg/m3 | 210 mg/m3 | 1300 mg/m3 |
| kaolin | Kaolin; (Aluminum silicate hydroxide; Fuller's earth [8031-18-3]) | 2 mg/m3 | 2 mg/m3 | 4.6 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|-----------------------|-----------------------|---------------|
| limestone | Not Available | Not Available |
| titanium dioxide | N.E. mg/m3 / N.E. ppm | 5,000 mg/m3 |
| magnesium oxide | N.E. mg/m3 / N.E. ppm | 750 mg/m3 |
| calcium carbonate | Not Available | Not Available |
| kaolin | Not Available | Not Available |
| aluminium tristearate | Not Available | Not Available |

Exposure controls

| | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engi effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. | |
|------------------------------------|--|--|
| | Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a | |
| | the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. | |
| | Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relative powdered by mutual friction. Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace. If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be c | |
| | consist of: (a): particle dust respirators, if necessary, combined with an absorption cartridge; (b): filter respirators with absorption cartridge or canister of the right type; | |
| | | |
| ppropriate engineering controls | (c): fresh-air hoods or masks Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture veloci required to efficiently remove the contaminant. | |
| | (c): fresh-air hoods or masks Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities where the transmission" (c): | |
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| | (c): fresh-air hoods or masks Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture veloc required to efficiently remove the contaminant. Type of Contaminant: direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation) | Air Speed: 1-2.5 m/s (200-500 f/min.) |
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| | (c): fresh-air hoods or masks Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture veloc required to efficiently remove the contaminant. Type of Contaminant: direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generatic into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very hi rapid air motion). | Air Speed: n 1-2.5 m/s (200-500 f/min.) gh 2.5-10 m/s (500-2000 |
| ppropriate engineering controls | (c): fresh-air hoods or masks Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture veloc required to efficiently remove the contaminant. Type of Contaminant: direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very hi rapid air motion). Within each range the appropriate value depends on: | ities" of fresh circulating air Air Speed: 1-2.5 m/s (200-500 f/min.) gh 2.5-10 m/s (500-2000 f/min.) |

| | 3: Intermittent, low production. | 3: High production, heavy use | | | |
|-------------------------|---|--|--|--|--|
| | 4: Large hood or large air mass in motion | 4: Small hood-local control only | | | |
| | Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used. | | | | |
| Personal protection | | | | | |
| Eye and face protection | Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irr lenses or restrictions on use, should be created for each workplace or task. This should include chemicals in use and an account of injury experience. Medical and first-aid personnel should b readily available. In the event of chemical exposure, begin eye irrigation immediately and remov at the first signs of eye redness or irritation - lens should be removed in a clean environment on Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] | e a review of lens absorption and adsorption for the class of the trained in their removal and suitable equipment should be ve contact lens as soon as practicable. Lens should be removed | | | |
| Skin protection | See Hand protection below | | | | |
| Hands/feet protection | The selection of suitable gloves does not only depend on the material, but also on further marks of q the chemical is a preparation of several substances, the resistance of the glove material can not be to the application. The exact break through time for substances has to be obtained from the manufacturer of the protect choice. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gl + frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or nation + When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 according to EN 374, AS/NZS 2161.1.0 r national equivalent) is recommended. When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 according to EN 374, AS/NZS 2161.1.0 r national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into accour + Contaminated gloves should be replaced. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried th recommended. polychloroprene. nitrile rubber. butyl rubber. butyl rubber. butyl rubber. polychloride. Gloves should be examined for wear and/ or degradation constantly. | calculated in advance and has therefore to be checked prior tive gloves and has to be observed when making a final loves include: onal equivalent). or higher (breakthrough time greater than 240 minutes gh time greater than 60 minutes according to EN 374, AS/NZS nt when considering gloves for long-term use. horoughly. Application of a non-perfumed moisturiser is | | | |
| Body protection | See Other protection below | | | | |
| Other protection | Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit. | | | | |
| Thermal hazards | Not Available | | | | |

Recommended material(s)

| GLOVE SELECTION INDEX | Particulate |
|--|--------------------|
| Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index". The effect(s) of the following substance(s) are taken into account in the computer- generated selection: | Require Protect |
| Meguiar's G11 - Clay Bar For Quik Detailing System Not Available | up to 10 |
| Material CPI | up to 50 |

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final

selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Respiratory protection

ate. (AS/NZS 1716 & 1715, EN 143:000 & 149:001, ANSI Z88 or national equivalent)

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|---------------------------------------|-------------------------|-------------------------|---------------------------|
| up to 10 x ES | P1 Air-line* | - | PAPR-P1 - |
| up to 50 x ES | Air-line** | P2 | PAPR-P2 |
| up to 100 x ES | - | P3 | - |
| | | Air-line* | - |
| 100+ x ES | - | Air-line** | PAPR-P3 |

* - Negative pressure demand ** - Continuous flow

 $\begin{array}{l} \mathsf{A}(\mathsf{All \ classes}) = \mathsf{Organic \ vapours}, \ \mathsf{B} \ \mathsf{AUS \ or \ B1} = \mathsf{Acid \ gasses}, \ \mathsf{B2} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B3} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B4} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B4} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B4} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B4} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B4} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{B4} = \mathsf{Acid \ gas \ or \ hydrogen \ cyanide(HCN)}, \ \mathsf{Acid \$ Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| Appearance | Off-white solid pliable clay bar with a slight odour; not miscible with water. | | |
|---|--|--|----------------|
| Physical state | Divided Solid | Relative density (Water = 1) | Not Available |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Applicable |
| pH (as supplied) | Not Applicable | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Applicable |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | Not Applicable | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Applicable | Surface Tension (dyn/cm or mN/m) | Not Applicable |
| Lower Explosive Limit (%) | Not Applicable | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water (g/L) | Immiscible | pH as a solution (1%) | Neutral |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |

SECTION 10 STABILITY AND REACTIVITY

| Reactivity | See section 7 |
|-------------------------------------|--|
| Chemical stability | Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| - | | | |
|---------------------------|---|------------------------------------|--|
| Inhaled | The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures. | | |
| Ingestion | Accidental ingestion of the material may be damaging to the health of the indivic Acute toxic responses to aluminium are confined to the more soluble forms. | dual. | |
| Skin Contact | The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Anionic surfactants can cause skin redness and pain, as well as a rash. Cracking, scaling and blistering can occur. Open cuts, abraded or irritated skin should not be exposed to this material | | |
| Eye | There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain. Direct eye contact with some anionic surfactants in high concentration can cause severe damage to the cornea. Low concentrations can cause discomfort, excess blood flow, and corneal clouding and swelling. Recovery may take several days. | | |
| Chronic | Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Exposure to large doses of aluminium has been connected with the degenerative brain disease Alzheimer's Disease. | | |
| | | | |
| Meguiar's G11 - Clay Bar | ΤΟΧΙΟΙΤΥ | IRRITATION | |
| For Quik Detailing System | Not Available | Not Available | |
| | ΤΟΧΙΟΙΤΥ | IRRITATION | |
| limestone | dermal (rat) LD50: >2000 mg/kg ^[1] | Skin (rabbit): 500 mg/24h-moderate | |
| | Oral (rat) LD50: >2000 mg/kge ^[1] | | |

| | TOXICITY | IRRITATION | |
|-----------------------|---|---------------------------------------|--|
| | Inhalation (rat) LC50: >2.28 mg/l4 h ^[1] | Skin (human): 0.3 mg /3D (int)-mild * | |
| | Inhalation (rat) LC50: >3.56 mg/l4 h ^[1] | | |
| titanium dioxide | Inhalation (rat) LC50: >6.82 mg/l4 h ^[1] | | |
| | Inhalation (rat) LC50: 3.43 mg/l4 h ^[1] | | |
| | Inhalation (rat) LC50: 5.09 mg/l4 h ^[1] | | |
| | Oral (rat) LD50: >2000 mg/kg ^[1] | | |
| | ΤΟΧΙΟΙΤΥ | IRRITATION | |
| magnesium oxide | Not Available | Not Available | |
| | TOXICITY | IRRITATION | |
| calcium carbonate | dermal (rat) LD50: >2000 mg/kg ^[1] | Eye (rabbit): 0.75 mg/24h - SEVERE | |
| | Oral (rat) LD50: >2000 mg/kge ^[1] | Skin (rabbit): 500 mg/24h-moderate | |
| | ΤΟΧΙΟΙΤΥ | IRRITATION | |
| kaolin | Not Available | Not Available | |
| | TOXICITY | IRRITATION | |
| aluminium tristearate | Not Available | Not Available | |
| Legend: | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data | | |

egend:

 value obtained from Europe ECHA Registered Substances - Acute toxicity 2." value obtained from manufacturer's SDS. Unless otherwise specified of extracted from RTECS - Register of Toxic Effect of chemical Substances

| Meguiar's G11 - Clay Bar For Quik Detailing System | Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. No significant acute toxicological data identified in literature search. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. |
|---|---|
| LIMESTONE | The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Eye (rabbit) 0.75: mg/24h - |
| TITANIUM DIOXIDE | The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle. It penetrated only the outermost layer of the skin, suggesting that healthy skin may be an effective barrier. There is no substantive data on genetic damage, though cases have been reported in experimental animals. Studies have differing conclusions on its cancer-causing potential. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. * IUCLID |
| CALCIUM CARBONATE | Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. |

| KAOLIN | No significant acute toxicological data identified in literature search. for bentonite clays: Bentonite (CAS No. 1302-78-9) consists of a group of clays formed by crystallisation of vitreous volcanic ashes that were deposited in water. The expected acute oral toxicity of bentonite in humans is very low (LD50-15 g/kg). However, severe anterior segment inflammation, uveitis and retrocorneal abscess from eye exposure were reported when bentonite had been used as a prophypaste. In a 33 day dietary (2 and 6%) and a 90 day dietary (1, 3 and 5%) studies in chickens, no changes in behaviour, overall state, clinical and biochemical parameters and electrolytic composition of the blood. Repeat dietary administration of bentonite did not affect calcium or phosphorus metabolism. However, larger amounts caused decreased growth, muscle weakness, and death with marked changes in both calcium and phosphorus metabolism. Bentonite did not cause fibrosis after 1 year exposure of 60 mg dust (<5 um) in a rat study. However, in a second rat study, where 5 um particles were intratracheally instilled at 5, 15 and 45 mg/rat, dose-related fibrosis was observed. Bentonite clay dust is believed to be responsible for bronchial asthma in workers at a processing plant in USA. Ingestion of bentonite without adequate liquids may result in intestinal obstruction in humans. Hypokalaemia and microcytic iron-deficiency anaemia may occur in patients after repeat doses of clay. Chronic ingestion has been reported to cause myositis. | | |
|--------------------------------------|--|--------------------------|--|
| ALUMINIUM TRISTEARATE | No significant acute toxicological data identified in literature search. Fatty acid salts of low acute toxicity. Their potential to irritate the skin and eyes is dependent on chain length. | | |
| LIMESTONE & CALCIUM CARBONATE | No evidence of carcinogenic properties. No evidence of mutagenic or | | |
| LIMESTONE & CALCIUM CARBONATE | teratogenic effects. | | |
| | | | |
| Acute Toxicity | \otimes | Carcinogenicity | \otimes |
| Skin Irritation/Corrosion | ✓ | Reproductivity | \otimes |
| Serious Eye Damage/Irritation | * | STOT - Single Exposure | ✓ |
| Respiratory or Skin sensitisation | 0 | STOT - Repeated Exposure | 0 |
| Mutagenicity | S Aspiration Hazard | | |
| | | . | Data required to make classification available Data available but does not fill the criteria for classification |

🚫 – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

For Surfactants: Kow cannot be easily determined due to hydrophilic/hydrophobic properties of the molecules in surfactants. BCF value: 1-350.

Aquatic Fate: Surfactants tend to accumulate at the interface of the air with water and are not extracted into one or the other liquid phases.

Terrestrial Fate: Anionic surfactants are not appreciably sorbed by inorganic solids. Cationic surfactants are strongly sorbed by solids, particularly clays. Significant sorption of anionic and non-ionic surfactants has been observed in activated sludge and organic river sediments. Surfactants have been shown to improve water infiltration into soils with moderate to severe hydrophobic or water-repellent properties.

Ecotoxicity: Some surfactants are known to be toxic to animals, ecosystems and humans, and can increase the diffusion of other environmental contaminants. The acute aquatic toxicity generally is considered to be related to the effects of the surfactant properties on the organism and not to direct chemical toxicity. Surfactants should be considered to be toxic to aquatic species under conditions that allow contact of the chemicals with the organisms. Surfactants are expected to transfer slowly from water into the flesh of fish. During this process, readily biodegradable surfactants are expected to be metabolized rapidly during the process of bioaccumulation. Surfactants are not to be considered to show bioaccumulation potential if they are readily biodegradable. For Aluminium and its Compunds and Salts:

Environmental Fate - As an element, aluminium cannot be degraded in the environment, but may undergo various precipitation or ligand exchange reactions. Aluminium in compounds has only one oxidation state (+3), and would not undergo oxidation-reduction reactions under environmental conditions. Aluminium can be complexed by various ligands present in the environment (e.g., fulvic and humic acids). The solubility of aluminium in the environment will depend on the ligands present and the pH. Atmospheric Fate: Air Quality Standards: none available.

Aquatic Fate: The hydrated aluminium ion undergoes hydrolysis. The speciation of aluminium in water is pH dependent. The hydrated trivalent aluminium ion is the predominant form at pH levels below 4. Between pH 5 and 6, the predominant hydrolysis products are Al(OH)2+ and Al(OH)2+, while the solid Al(OH)3 is most prevalent between pH 5.2 and 8.8. The soluble species Al(OH)4- is the predominant species above pH 9, and is the only species present above pH 10. Polymeric aluminium hydroxides appear between pH 4.7 and 10.5, and increase in size until they are transformed into colloidal particles of amorphous Al(OH)3, which crystallize to glibbite in acid waters. When enough silica is present, aluminium is precipitated as poorly crystallized clay mineral species. Hydroxyaluminium compounds can act as both acids and bases in solution. Because of this property, aluminium hydroxides can act as buffers and resist pH changes within the narrow pH range of 4-5. Polymeric aluminium species react slowly in the environment. Aluminium has a strong attraction to fluoride in an acidic environment. Within the pH range of 5 - 6, aluminium complexes with phosphate and is removed from the solution. This may result in depleted nutrient states in surface water.

Terrestrial Fate: Soil - Clay soils may act as a sink or a source for soluble aluminium depending on the degree of aluminium saturation on the clay surface. Soil Guideline: none available. Plants -Plant species and cultivars of the same species differ considerably in their ability to take up and translocate aluminium to above-ground parts. Tea leaves may contain very high concentrations of aluminium, >5,000 mg/kg in old leaves. Other plants that may contain high levels of aluminium include clubmosses (also known as ground pines or creeping cedar), a few fems, Symplocos (Symplocaceae), and Orites (Proteaceae). Aluminium is often taken up and concentrated in root tissue. In sub-alpine ecosystems, the large root biomass of the Douglas fir takes up aluminium and immobilizes it, preventing large accumulation in above-ground tissue. It is unclear to what extent aluminium is taken up into root food crops and leafy vegetables.

Ecotoxicity: Aluminium is toxic to many aquatic species thus it is not bioaccumulated to a significant degree in most fish and shellfish; therefore, consumption of contaminated fish does not appear to be a significant aluminium exposure in humans. Bioconcentration of aluminium has also been reported for several aquatic invertebrate species. Aluminium is highly toxic to fish, amphibians and planktonic crustaceans. Aluminium can affect the population growth of algal species with single-celled plants generally more sensitive to aluminium. Fish are generally more sensitive to aluminium than aquatic invertebrates due to gill toxication. The inorganic single unit aluminium species (Al(OH)2 +) is thought to be the most toxic At approximately neutral pH values, the toxicity of aluminium is greatly reduced. The solubility of aluminium is also enhanced under alkaline conditions and acute toxicity of aluminium increases from pH 7 to pH 9. However, the opposite relationship was found in other studies. The uptake and toxicity of aluminium in freshwater organisms generally decreases with increasing water hardness under acidic, neutral and alkaline conditions. Complexing agents such as fluoride, citrate and humic substances reduce the availability of aluminium to organisms, resulting in lower toxicity. Silicon can also reduce aluminium toxicity to fish. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------------|-------------------------|------------------|
| titanium dioxide | HIGH | HIGH |
| | | |

| Bioaccumulative potential | |
|---------------------------|--|
| | |

Ingredient

Version No: 7.1.1.1

Meguiar's G11 - Clay Bar For Quik Detailing System

| titanium dioxide | LOW (BCF = 10) |
|------------------|-------------------|
| Mobility in soil | |
| Ingredient | Mobility |
| titanium dioxide | LOW (KOC = 23.74) |
| | |

SECTION 13 DISPOSAL CONSIDERATIONS

| Waste treatment methods | |
|---------------------------------|--|
| Product / Packaging disposal | Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: • Reduction • Reuse • Recycling • Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. In most instances the supplier of the material should be consulted. • DO NOT allow wash water from cleaning or process equipment to enter drains. • It may be necessary to collect all wash water for treatment before disposal. • In all cases disposal to sever may be subject to local laws and regulations and these should be considered first. • Where in doubt contact the responsible authority. • Recycle wherever possible or consult manufacturer for recycling options. • Consult State Land Waste Management Authority for disposal. • Bury residue in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill. |

SECTION 14 TRANSPORT INFORMATION

Labels Required

Canada - NDSL

China - IECSC

| Marine Pollutant | NO |
|------------------|----------------|
| HAZCHEM | Not Applicable |

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

| Source | Ingredient | Pollution Category |
|---|------------------|--------------------|
| IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk | titanium dioxide | Z |

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

N (kaolin; magnesium oxide; aluminium tristearate)

Υ

| LIMESTONE(1317-65-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS | | | |
|--|---|--|--|
| Australia Exposure Standards | | Australia Inventory of Chemical Substances (AICS) | |
| TITANIUM DIOXIDE(13463-67-7 | 7) IS FOUND ON THE FOLLOWING REGULATORY LISTS | | |
| Australia Exposure Standards | | International Agency for Research on Cancer (IARC) - Agents Classified by the IARC | |
| Australia Inventory of Chemical Se | ubstances (AICS) | Monographs | |
| MAGNESIUM OXIDE(1309-48-4 | I) IS FOUND ON THE FOLLOWING REGULATORY LISTS | | |
| Australia Exposure Standards | | Australia Inventory of Chemical Substances (AICS) | |
| Australia Hazardous Substances | Information System - Consolidated Lists | | |
| CALCIUM CARBONATE(471-34 | 4-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS | | |
| Australia Exposure Standards | | Australia Inventory of Chemical Substances (AICS) | |
| KAOLIN(1332-58-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS | | | |
| Australia Exposure Standards | | Australia Inventory of Chemical Substances (AICS) | |
| ALUMINIUM TRISTEARATE(637-12-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS | | | |
| Australia Exposure Standards | | Australia Inventory of Chemical Substances (AICS) | |
| | | | |
| National Inventory | Status | | |
| Australia - AICS | Y | | |
| Canada - DSL | Υ | | |

| Europe - EINEC / ELINCS / NLP | Y |
|----------------------------------|---|
| Japan - ENCS | Y |
| Korea - KECI | Y |
| New Zealand - NZIoC | Y |
| Philippines - PICCS | Y |
| USA - TSCA | Y |
| Legend: | Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

| Name | CAS No |
|-------------------|---|
| titanium dioxide | 100292-32-8, 101239-53-6, 116788-85-3, 12000-59-8, 12188-41-9, 12701-76-7, 12767-65-6, 12789-63-8, 1309-63-3, 1317-70-0, 1317-80-2, 1344-29-2, 13463-67-7, 185323-71-1, 185828-91-5, 188357-76-8, 188357-79-1, 195740-11-5, 221548-98-7, 224963-00-2, 246178-32-5, 252962-41-7, 37230-92-5, 37230-94-7, 37230-95-8, 37230-96-9, 39320-58-6, 39360-64-0, 39379-02-7, 416845-43-7, 494848-07-6, 494848-23-6, 494851-77-3, 494851-98-8, 55068-84-3, 55068-85-4, 552316-51-5, 62338-64-1, 767341-00-4, 97929-50-5, 98084-96-9 |
| calcium carbonate | 1317-65-3, 13397-26-7, 146358-95-4, 15634-14-7, 198352-33-9, 459411-10-0, 471-34-1, 63660-97-9, 72608-12-9, 878759-26-3 |

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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TEL (+61 3) 9572 4700.