



SAFETY DATA SHEET

Date of issue: 06/30/2015

Revision date: 10/04/2018

Version: 2.0

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name : Palmer QwikSet™ Mirro-Mastic®
CRL Catalog Number : PM711N

Manufacturer or supplier's details
Company : Palmer Products Corporation
Address : 146 St. Matthews Avenue
Louisville, KY 40207 USA
Telephone : 502.893.3668
Email : palmer@mirro-mastic.com

Medical Emergency Phone Number : (CHEMTREC): 1-800-424-9300 (24 Hours)
Transport Emergency Phone Number : (CHEMTREC): 1-800-424-9300 (24 Hours)
Use of the substance/mixture : Adhesive

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable Liquid : Category 2
Skin Irritation : Category 2
Carcinogenicity : Category 2
Reproductive Toxicity : Category 1B
Specific Target Organ Systemic Toxicity Single Exposure : Category 3 (Central nervous system)
Specific Target Organ Systemic Toxicity Repeated Exposure : Category 2
Aspiration hazard : Category 1

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Hazard statements (GHS-US) :

Precautionary statements (GHS-US) :

: **Danger**
: H225 Highly flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H360 May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H351 Suspected of causing cancer.

: **Prevention:** P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.

: **Response:** P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P308 + P313 IF exposed or concerned: Get medical advice/attention. P331 Do NOT induce vomiting. P332 + P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P370 + P378 in case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage: P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal: P501 Dispose of contents/container to an approved waste disposal plant.

| | |
|-----------------|--|
| Carcinogenicity | Group 1: Carcinogenic to humans. During normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk. |
| | Quartz(SiO ₂) 14808-60-7 |
| | Cristobalite 14464-46-1 |
| | Group 2B: Possibly carcinogenic to humans |
| | Bis(2-ethylhexyl) phthalate 117-81-7 |
| | Titanium dioxide 13463-67-7 |
| | Carbon black 1333-86-4 |
| OSHA | No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. |
| NTP | Known to be human carcinogen. During normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk. |
| | Quartz (SiO ₂) 14808-60-7 |
| | Cristobalite 14464-46-1 |
| | Reasonably anticipated to be a human carcinogen |
| | Bis(2-ethylhexyl) phthalate 117-81-7 |

2.3. Other hazards

No additional information available.

2.4. Unknown acute toxicity (GHS-US)

33% of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3: Composition/information on ingredients

3.1 Substance / Mixture

| Chemical name | Product identifier | % | GHS-US classification |
|--|---------------------|---------|---|
| Kaolin | (CAS No) 1332-58-7 | 30 - 50 | Not classified. |
| n-hexane | (CAS No) 110-54-3 | 20 - 30 | Flam. Liq. 2 Skin Irrit. 2 Repr. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1 |
| Toluene | (CAS No) 108-88-3 | 5 - 10 | Flam. Liq. 2 Skin Irrit. 2 Repr. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1 |
| Acetone | (CAS No) 67-64-1 | 10 - 20 | Flam. Liq. 2 Eye Irrit. 2A STOT SE 3 |
| Quartz (SiO ₂) | (CAS No) 14808-60-7 | 0.1 - 1 | Carc. 1A ¹ STOT RE 1 ¹ |
| Bis(2-ethylhexyl) phthalate | (CAS No) 117-81-7 | 0.1 - 1 | Carc. 2 |
| Titanium dioxide | (CAS No) 13463-67-7 | 0.1 - 1 | Carc. 2 ¹ |
| Cristobalite | (CAS No) 14464-46-1 | 0.1 - 1 | Carc. 1A ¹ STOT RE 1 ¹ |
| 6, 6'-di-tert-butyl-2,2'-methylene-di-p-cresol | (CAS No) 119-47-1 | 0.1 - 1 | Eye Irrit. 2A Repr. 2 |
| Carbon black | (CAS No) 1333-86-4 | 0.1 - 1 | Carc. 2 ¹ Comb. Dust 1 |

SECTION 4: First aid measures

- First-aid measures after inhalation : Move to fresh air. If symptoms persist, call a physician.
- First-aid measures after skin contact : Wash off with soap and water. Get medical attention if irritation develops and persists.
- First-aid measures after eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
- First-aid measures after ingestion : Do NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

SECTION 5: Firefighting measures

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during fire fighting : Cool closed containers exposed to fire with water spray.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Prevent spreading over a wide area (e.g. by containment or oil barriers).
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Non-sparking tools should be used.

SECTION 7: Handling and storage

- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Avoid inhalation of vapor or mist. Do not use in areas without adequate ventilation. Keep away from fire, sparks and heated surfaces. Keep container closed when not in use. Take precautionary measures against static discharges.
- Conditions for safe storage : Take measures to prevent the buildup of electrostatic charge. Use explosion-proof equipment. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from sources of ignition – No smoking. Solvent vapors are heavier than air and may spread along floors.
- Materials to avoid : Strong oxidizing agents

SECTION 8: Exposure controls/personal protection

| Ingredients | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|-------------|-----------|-------------------------------|--|----------|
| kaolin | 1332-58-7 | TWA (Respirable fraction) | 2 mg/m ³ | ACGIH |
| | | TWA (total dust) | 15 mg/m ³ | OSHA Z-1 |
| | | TWA (respirable fraction) | 5 mg/m ³ | OSHA Z-1 |
| | | TWA (Total) | 10 mg/m ³ | OSHA P0 |
| | | TWA (Respirable fraction) | 5 mg/m ³ | OSHA P0 |
| n-hexane | 110-54-3 | TWA | 50 ppm | ACGIH |
| | | TWA | 500 ppm 1,800 mg/m ³ | OSHA Z-1 |
| | | TWA | 50 ppm 180 mg/m ³ | OSHA P0 |
| toluene | 108-88-3 | TWA | 20 ppm | ACGIH |
| | | TWA | 200 ppm | OSHA Z-2 |

| | | | | |
|-----------------------------|------------|------------------------------|--|----------|
| | | CEIL | 300 ppm | OSHA Z-2 |
| | | Peak | 500 ppm | OSHA Z-2 |
| | | TWA | 100 ppm 375 mg/m ³ | OSHA P0 |
| | | STEL | 150 ppm 560 mg/m ³ | OSHA P0 |
| acetone | 67-64-1 | TWA | 500 ppm | ACGIH |
| | | STEL | 750 ppm | ACGIH |
| | | TWA | 1,000 ppm 2,400 mg/m ³ | OSHA Z-1 |
| | | TWA | 750 ppm 1,800 mg/m ³ | OSHA P0 |
| | | STEL | 1,000 ppm 2,400 mg/m ³ | OSHA P0 |
| Quartz (SiO ₂) | 14808-60-7 | TWA (Respirable fraction) | 0.025 mg/m ³ | ACGIH |
| | | TWA (total dust) | 30 mg/m ³ / %SiO ₂ +2 | OSHA Z-3 |
| | | TWA (respirable) | 10 mg/m ³ / %SiO ₂ +2 | OSHA Z-3 |
| | | TWA (respirable) | 250 mppcf / %SiO ₂ +5 | OSHA Z-3 |
| | | TWA (Respirable fraction) | 0.1 mg/m ³ | OSHA P0 |
| bis(2-ethylhexyl) phthalate | 117-81-7 | TWA | 5 mg/m ³ | ACGIH |
| | | TWA | 5 mg/m ³ | OSHA Z-1 |
| | | TWA | 5 mg/m ³ | OSHA P0 |
| | | STEL | 10 mg/m ³ | OSHA P0 |
| titanium dioxide | 13463-67-7 | TWA | 10 mg/m ³ | ACGIH |
| | | TWA (total dust) | 15 mg/m ³ | OSHA Z-1 |
| | | TWA (Total) | 10 mg/m ³ | OSHA P0 |
| crystalite | 14464-46-1 | TWA (Respirable fraction) | 0.025 mg/m ³ | ACGIH |
| | | TWA (Respirable fraction) | 0.05 mg/m ³ | OSHA P0 |
| Carbon black | 1333-86-4 | TWA | 3.5 mg/m ³ | ACGIH |
| | | TWA | 3.5 mg/m ³ | OSHA Z-1 |
| | | TWA | 3.5 mg/m ³ | OSHA P0 |

Engineering measures : Use local exhaust ventilation or other engineering controls to minimize exposures.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Organic vapor Type

Hand protection Material : Nitrile rubber

Eye protection : Safety glasses with side-shields

Hygiene measures : Avoid contact with skin, eyes and clothing. Provide adequate ventilation.

SECTION 9: Physical and chemical properties

Appearance : viscous liquid

Color : black

Odor : solvent

Odor Threshold : not determined

| | |
|--|--|
| Boiling point/boiling range | : >65 °C |
| Flash point | : 18 °C |
| Evaporation rate | : not determined |
| Upper explosion limit | : Upper flammability limit, not determined |
| Lower explosion limit | : Lower flammability limit, not determined |
| Density Solubility(ies) | : 8.300 – 8.700 lb/gal |
| Water Solubility | : not determined |
| Partition coefficient: n-octanol/water | : No data available |
| Autoignition temperature | : not determined |
| Viscosity, kinematic | : not determined |
| VOC, less water, in g/l | : 293 |
| Solid Content, % by weight | : 65 – 71 |
| VOC, % by weight | : 28 |

SECTION 10: Stability and reactivity

| | |
|-----------------------------------|--|
| Chemical stability | : The product is chemically stable. |
| Possibility of hazardous reaction | : Hazardous polymerization does not occur. |
| Conditions to avoid | : Heat, flames and sparks. |
| Hazardous decomposition | : Stable under normal conditions. |

SECTION 11: Toxicological information

Acute Toxicity

Product:

| | |
|-----------------------|---|
| Acute oral toxicity | : Acute toxicity estimate: >5,000 mg/kg Method: Calculation method |
| Acute dermal toxicity | : Acute toxicity estimate: >5,000 mg/kg Method: Calculation method |

Ingredients:

| | |
|-----------------------|-----------------------------------|
| 110-54-3 | |
| Acute dermal toxicity | : LD50 Dermal Rabbit: 3,000 mg/kg |

108-88-3

| | |
|---------------------------|---|
| Acute oral toxicity | : LD50 Oral Rat: 636 mg/kg |
| Acute inhalation toxicity | : LC50 Rat: 12.5 mg/l Exposure time: 4 h |

14808-60-7

| | |
|---------------------|----------------------------|
| Acute oral toxicity | : LD50 Oral Rat: 500 mg/kg |
|---------------------|----------------------------|

117-81-7

| | |
|---------------------------|---|
| Acute inhalation Toxicity | : LC50 Rat : 5.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist |
|---------------------------|---|

| | |
|---------------------------|---------------------|
| Skin corrosion/irritation | : No data available |
|---------------------------|---------------------|

| | |
|-----------------------------------|---------------------|
| Serious eye damage/eye irritation | : No data available |
|-----------------------------------|---------------------|

| | |
|--------------------------|---------------------|
| Germ cell mutagenicity | : No data available |
| Carcinogenicity | : No data available |
| Reproductive toxicity | : No data available |
| STOT – single exposure | : No data available |
| STOT – repeated exposure | : No data available |
| Aspiration toxicity | : No data available |

SECTION 12: Ecological information

Ecotoxicity

Ingredients

110-54-3

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.1 – 2.98 mg/l
Exposure time 96 h
Test Method: glow-through test

108-88-3

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.8 mg/l
Exposure time 96 j
Test Method: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 5.46 – 9.83 mg/l
Exposure time 48h
Test Method: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata(microalgae)): 12/5 mg/l
Exposure time 72 h
Test Type: static test

117-81-7

Toxicity to fish aquatic invertebrates : LC50 (pimephales promelas (fathead minnow)): >0.16 mg/l
Exposure time : 96 h
Test Method: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): >0.16 mg/l
Exposure time: 96 h
Test Method: static test

Toxicity to algae : EC50 (pseudokirchneriella subcapitata(microalgae)): .0.1 mg/l
Exposure time 96 h
Test Type: flow-through test

Persistence and degradability : No data available

Bioaccumulative potential

Mobility in soil : No data available

Other adverse effects : No data available

SECTION 13: Disposal considerations

Disposal methods

Waste from residues : This product meets the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It is ignitable waste class D001. Disposal via incineration is recommended. Consult your state, local or provincial authorities for more restrictive requirements. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

SECTION 14: Transport information

Special precautions for user : Not applicable

Domestic regulation**49 CFR**

UN/ID/NA : 1133
 Proper shipping name : Adhesives
 Class : 3
 Packing group : II
 Labels : 3
 ERG Code : 128
 Marine pollutant : no

International Regulations**IATA-DGR**

UN/ID No. : 1133
 Proper Shipping name : Adhesives
 Class : 3
 Packing group : II
 Labels : 3
 Packing instruction (cargo aircraft) : 364
 Packing instruction (passenger aircraft) : 353

IMDG-Code

UN number : 1133
 Proper shipping name : Adhesives
 Class : 3
 Packing group : II
 Labels : 3
 EmS :
 ERG Code : 128
 Marine pollutant : no

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

Not applicable for product as supplied

SECTION 15: Regulatory information

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
 Skin corrosion or irritation
 Carcinogenicity
 Reproductive toxicity
 Specific target organ toxicity (single or repeated exposure)
 Aspiration hazard

SARA 302 : This material does not contain any components with a section 302 EHS TPQ

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

| | |
|-----------------------------|----------|
| n-hexane | 110-54-3 |
| toluene | 108-88-3 |
| bis(2-ethylhexyl) phthalate | 117-81-7 |

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12(40 CFR 61):

| | |
|----------|----------|
| n-Hexane | 110-54-3 |
| toluene | 108-88-3 |

US State Regulations

California Prop 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

| | |
|-----------------------------|------------|
| Quartz(SiO2) | 14808-60-7 |
| bis(2-ethylhexyl) phthalate | 117-81-7 |
| titanium dioxide | 13463-67-7 |
| crystalite | 14464-46-1 |
| Carbon black | 1333-86-4 |

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

| | |
|-----------------------------|----------|
| toluene | 108-88-3 |
| bis(2-ethylhexyl) phthalate | 117-81-7 |

The ingredients of this product are reported in the following inventories:

| | |
|--------------|--|
| TSCA | On TSCA Inventory |
| DSL | All components of this product are on the Canadian DSL |
| REACH | Not in compliance with the inventory |
| AICS | Not in compliance with the inventory |
| NZIoC | Not in compliance with the inventory |
| ENCS | Not in compliance with the inventory |
| KECI | On the inventory, or in compliance with the inventory |
| PICCS | On the inventory, or in compliance with the inventory |
| IECSC | On the inventory, or in compliance with the inventory |
| TCSI | Not in compliance with the inventory |

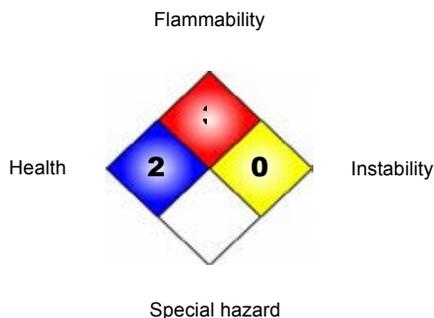
Inventories Legend TSCA (USA), DSL (Canada), REACH(Europe), AICS(Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), WEINV (Taiwan)

SECTION 16: Other information

Date of issue : 06/30/2015
 Other information : None.

Further information

NFPA:



| | |
|------------------------|-----------|
| HEALTH | 3* |
| FLAMMABILITY | 3 |
| PHYSICAL HAZARD | 0 |

0=not significant, 1=Slight, 2=Moderate, 3=High, 4=Extreme, *=Chronic

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