## SAFETY DATA SHEET



### MEDALLION™ FM GREASE (ALL GRADES)

### **Section 1. Identification**

**GHS** product identifier

Medallion™ FM Grease (All Grades)

Other means of identification

: Not available.

**Product type** 

: Solid.

**Identified uses** 

Not available.

Supplier's details

The Whitmore Manufacturing Company

930 Whitmore Drive, Rockwall, TX 75087, USA

Tel.: (972) 771-1000 Toll Free: (800) 699-6318 Fax: (972) 722-2108

Email: techservice@whitmores.com

Web: www.whitmores.com

Emergency telephone number (with hours of operation) : CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887

(24/7)

### Section 2. Hazards identification

Since the carcinogenic ingredients in this compound are encapsulated, the risk of exposure by inhalation is minimum.

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture

: AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3

**GHS** label elements

Signal word : No signal word.

**Hazard statements** : Harmful to aquatic life with long lasting effects.

**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**: Avoid release to the environment.

Response : Not applicable.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

**Hazards not otherwise** 

classified

: None known.



### Section 3. Composition/information on ingredients

Substance/mixture
Other means of identification

: Not available.

#### **CAS** number/other identifiers

CAS number : Not applicable.

Product code : Not available.

| Ingredient name                   | %       | CAS number |
|-----------------------------------|---------|------------|
| 1-Propene, 2-methyl-, homopolymer | 1 - 5   | 9003-27-4  |
| Titanium dioxide                  | 1 - 5   | 13463-67-7 |
| 2,6-di-tert-Butyl-p-cresol        | 0.1 - 1 | 128-37-0   |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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. Get medical attention if irritation occurs.

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 adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately.

Skin contact

: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. 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. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.



### Section 4. First aid measures

#### Indication of immediate medical 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

: This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Oxides of aluminum, calcium, titanium, phosphorus, nitrogen and carbon.

Special protective actions for fire-fighters

: No special measures are required.

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, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.



### Section 6. Accidental release measures

#### Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

| Ingredient name            | Exposure limits  |
|----------------------------|--|
| Titanium dioxide           | OSHA PEL (United States, 2/2013).  TWA: 15 mg/m³ 8 hours. Form: Total dust  ACGIH TLV (United States, 4/2014).  TWA: 10 mg/m³ 8 hours.   |
| 2,6-di-tert-Butyl-p-cresol | OSHA PEL 1989 (United States, 3/1989).  TWA: 10 mg/m³ 8 hours.  NIOSH REL (United States, 10/2013).  TWA: 10 mg/m³ 10 hours.  ACGIH TLV (United States, 4/2014).  TWA: 2 mg/m³ 8 hours. Form: Inhalable fraction and vapor |

# Appropriate engineering controls

**Environmental exposure controls** 

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### **Individual protection measures**

**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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



### Section 8. Exposure controls/personal protection

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 sideshields.

#### Skin 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, particulate filter 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** : Solid. [Semi-solid (grease).]

: White. Color

Odor Mild petroleum. : Not available. **Odor threshold** pH Not available. **Melting point** : Not available. **Boiling point** : Not available.

Open cup: >204.44°C (>400°F) [Cleveland.] Flash point

Not available. **Evaporation rate** Flammability (solid, gas) : Not available. : Not available. Lower and upper explosive

(flammable) limits

: Not available. Vapor pressure Vapor density : Not available.

**Relative density** 0.92

Solubility : Insoluble in the following materials: cold water and hot water.

Soluble in aliphatic & aromatic solvents.

Partition coefficient: n-

octanol/water

: Not available.

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available. **Viscosity** : Not available.



### Section 9. Physical and chemical properties

Volatility : Not available.

### 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**: Reactive or incompatible with the following materials: oxidizing materials.

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**

| Product/ingredient name    | Result    | Species | Dose      | Exposure |
|----------------------------|-----------|---------|-----------|----------|
| 2,6-di-tert-Butyl-p-cresol | LD50 Oral | Rat     | 890 mg/kg | -        |

#### Irritation/Corrosion

| Product/ingredient name    | Result   | Species                   | Score       | Exposure  | Observation |
|----------------------------|--|---------------------------|-------------|---|-------------|
| Titanium dioxide           | Skin - Mild irritant   | Human                     | -           | 72 hours 300 µg<br>Intermittent                       | -           |
| 2,6-di-tert-Butyl-p-cresol | Eyes - Moderate irritant<br>Skin - Mild irritant<br>Skin - Moderate irritant | Rabbit<br>Human<br>Rabbit | -<br>-<br>- | 24 hours 100 mg<br>48 hours 500 mg<br>48 hours 500 mg | -           |

#### **Sensitization**

There is no data available.

#### **Carcinogenicity**

#### Classification

| Product/ingredient name | OSHA | IARC | NTP | ACGIH | EPA | NIOSH |
|-------------------------|------|------|-----|-------|-----|-------|
| Titanium dioxide        | -    | 2B   | -   | A4    | -   | +     |

#### Specific target organ toxicity (single exposure)

There is no data available.

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### **Aspiration hazard**

There is no data available.

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal.

Potential acute health effects



### **Section 11. Toxicological information**

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

Potential delayed effects

effects

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

Long term exposure

**Potential immediate** 

effects

: No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

#### Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 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**

There is no data available.

### **Section 12. Ecological information**

#### **Toxicity**

| Product/ingredient name           | Result                               | Species   | Exposure |
|-----------------------------------|--------------------------------------|---|----------|
| 1-Propene, 2-methyl-, homopolymer | Acute LC50 >5600000 μg/L Fresh water | Fish - Oncorhynchus mykiss  | 96 hours |
| Titanium dioxide                  | Acute EC50 5.83 mg/L Fresh water     | Algae - Pseudokirchneriella subcapitata - Exponential growth phase  | 72 hours |
|                                   | Acute LC50 3 mg/L Fresh water        | Crustaceans - Ceriodaphnia dubia - Neonate                          | 48 hours |
|                                   | Acute LC50 5.5 ppm Fresh water       | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
|                                   | Acute LC50 1000 mg/L Fresh water     | Fish - Pimephales promelas  | 96 hours |
|                                   | Chronic NOEC 0.984 mg/L Fresh water  | Algae - Pseudokirchneriella subcapitata - Exponential growth phase  | 72 hours |
| 2,6-di-tert-Butyl-p-cresol        | Acute EC50 1440 μg/L Fresh water     | Daphnia - Daphnia pulex - Neonate                                   | 48 hours |



### **Section 12. Ecological information**

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

| Product/ingredient name                     | LogPow | BCF         | Potential |
|---|--------|-------------|-----------|
| Titanium dioxide 2,6-di-tert-Butyl-p-cresol | -      | 352         | low       |
|   | 5.1    | 330 to 1800 | high      |

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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 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 empty 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 | IMDG           | IATA           |
|----------------------------|--------------------|----------------|----------------|
| UN number                  | Not regulated.     | Not regulated. | Not regulated. |
| UN proper shipping name    | -                  | -              | -              |
| Transport hazard class(es) | -                  | -              | -              |
| Packing group              | -                  | -              | -              |
| Environmental hazards      | No.                | No.            | No.            |
| Additional information     | -                  | -              | -              |

**AERG**: Not applicable.



### **Section 14. Transport information**

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

### **Section 15. Regulatory information**

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

**Clean Air Act Section 602** 

**Class I Substances** 

: Not listed

Clean Air Act Section 602

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

Classification : Not applicable.

**Composition/information on ingredients** 

| Name             | %     | hazard | Sudden<br>release of<br>pressure |     |     | Delayed<br>(chronic)<br>health<br>hazard |
|------------------|-------|--------|----------------------------------|-----|-----|--|
| Titanium dioxide | 1 - 5 | No.    | No.                              | No. | No. | Yes.                                     |

#### **SARA 313**

No products were found.

#### State regulations

**Massachusetts** : The following components are listed: Titanium dioxide

**New York** : None of the components are listed.

: The following components are listed: Distillates (petroleum), hydrotreated heavy **New Jersey** 

paraffinic; Titanium dioxide

**Pennsylvania** The following components are listed: Aluminum, benzoate C16-18-fatty acids hydroxy

complexes; Titanium dioxide

California Prop. 65



### **Section 15. Regulatory information**

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

| Ingredient name  | Cancer | •   | level | Maximum acceptable dosage level |
|------------------|--------|-----|-------|---------------------------------|
| Titanium dioxide | Yes.   | No. | No.   | No.                             |

### Section 16. Other information

#### **History**

Date of issue mm/dd/yyyy : 04/30/2015

Version : 1

Revised Section(s) : Not applicable.

Prepared by : KMK Regulatory Services Inc.

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

