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| Page 1 of 4AVATAR CORPORATION | | Date: | 03/09/2015 |
| Document #: | SDS-1111111-02 | Page | 1 of 4 |
| Title: | Citation™ White Mineral Oils, NF – Safety Data Sheet CLP | | |
| Document Owner: | JG | Approved by: | J.P. Roush, M.S. |

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifier

Tradename: **Citation™ White Mineral Oils, NF**
Code: 1111111
REACH preregistration No.: 05-2117232125-57-0000

1.2. Identified uses / uses advised against

Identified uses: Excipient grade lubricant, release agent for food, personal care and industrial applications

1.3. Supplier details:

Company/Address: Avatar Corporation, 500 Central Avenue, University Park, IL 60484 USA
Website: www.avatarcorp.com
Email: jproush@avatarcorp.com
Telephone/Fax: 708.534.5511 / 708.534.0123
Responsible Dept: Regulatory

1.4 Transportation emergency contact: Chem Tel 800.255.3924

2. HAZARDS IDENTIFICATION:

2.1. Classification of substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]: Not classified
Classification according to Directive 67/548/EEC or 1999/45/EC: Not classified
Adverse effects: At high temperatures, vapors may be generated which may be considered hazardous at concentrations exceeding 2 mg/m³.

2.2. Label elements: Not applicable

2.3. Other hazards: These substances/mixtures do not meet the PBT/vPvB criteria of REACH, annex XIII. Prolonged/repetitive skin contact may cause skin defatting or dermatitis; ingestion may have laxative effect.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substance

| Component | CAS No. | EC No. | % by Wt. | HS Tariff Classification No. |
|-----------------|-----------|-----------|----------|------------------------------|
| Mineral Oil, NF | 8042-47-5 | 232-455-8 | 100 | 2710.19.45 |
| Tocopherol | 59-02-9 | 200-412-2 | ≤ 0.001 | 2936.28.00 |

4. FIRST AID MEASURES

4.1. General information:

Eye: Flush immediately with large amounts of water. If irritation occurs, call a physician
Skin: Wash exposed area of skin with water. If burned by contact with hot material, cool material as quickly as possible with water. See a physician for burn treatment, irritation or allergic reaction.
Ingestion: If uncomfortable or symptomatic, seek medical assistance promptly.
Inhalation: If adverse effects occur, remove to uncontaminated area. Get medical attention if symptoms persist.

4.2. Most important symptoms and effects, acute and delayed

Symptoms/injuries: High vapor concentration may induce headache, nausea, dizziness and respiratory irritation. Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

4.3. Indication of any immediate medical attention and special treatment needed: See 4.1 and 4.2.

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5. FIRE FIGHTING MEASURES

- 5.1. Extinguishing media: Dry chemical, carbon dioxide, foam, steam or water fog
Unsuitable extinguishing media: Water streams will scatter liquid and spread fire, but may be used to keep fire-exposed containers and surroundings cool.
- 5.2. Special hazards: May create dense smoke during combustion
Fire hazard: Mild fire hazard when heated above its flash point; material must be preheated before ignition will occur (OSHA Class IIIB).
- 5.3. Advise for firefighters:
Firefighting instruction: Cool unaffected containers and remove to safety.
Firefighting protection: Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures
Personnel: Wear appropriate breathing apparatus, protective clothing gloves and eye/face protection. No smoking. Refer to section 8.
Emergency procedures: Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces.
- 6.2. Environmental precautions Prevent spills from entering sewers and public waters.
- 6.3. Containment / Cleanup
Containment: Dike around spill; have oil-absorbent materials readily available.
Cleanup: Remove mechanically or contain on an absorbent material such as dry sand or earth and dispose of in accordance with current applicable regulations

7. HANDLING AND STORAGE

- 7.1. Handling No special requirements; observe good industrial hygiene practices.
- 7.2. Storage Do not store in open or unlabeled containers. Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1. Control parameters
Limits: OSHA PEL – 5 mg/m³ (oil mist) (1989) (1971)
ACGIH TLV-TWA – 5 mg/m³ (oil mist)
ACGIH TLV-STEL – 10 mg/m³ (oil mist)
- 8.2. Exposure controls Control airborne concentrations below the exposure guidelines. Provide local exhaust or general room ventilation to minimize vapor concentrations. Provide emergency eye wash fountains and safety showers.
- Eye:* Wear protective goggles or face shield if splashing is possible.
Skin: Wear protective gloves/clothing
Inhalation: Avoid breathing mist. If ventilation is inadequate, use NIOSH/MSHA certified respirator to protect against mist.
- Environmental controls:* Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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9. CHEMICAL AND PHYSICAL PROPERTIES

9.1. Basic physical and chemical properties

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|------------------------------------|---|
| <i>Appearance / Odor:</i> | Oily liquid / Odorless |
| <i>pH:</i> | Not determined |
| <i>Vapor Pressure:</i> | < 1.0 mmHg @ 20°C (68°F) |
| <i>Vapor Density (Air=1):</i> | >1 |
| <i>Boiling Point:</i> | Not determined |
| <i>Melting Point:</i> | Not applicable |
| <i>Solubility:</i> | Negligible in water (below 0.1%); soluble in hydrocarbons |
| <i>Specific Gravity (Water=1):</i> | 0.818 - 0.880 @ 25°C/25°C (77°F) |
| <i>Pour Point:</i> | Not applicable |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| 10.1. Reactivity | Unknown |
| 10.2. Chemical Stability | Generally stable |
| 10.3. Hazardous reactions | Hazardous polymerization will not occur |
| 10.4. Conditions to avoid | Extreme heat; contact with chlorine, fluorine, and other strong oxidizers and acids |
| 10.5. Incompatible materials | Chlorine, fluorine, and other strong oxidizers and acids |
| 10.6. Hazardous decomposition products | Incomplete burning can produce carbon monoxide and/or carbon dioxide. |

11. TOXICOLOGICAL INFORMATION

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|----------------------------------|--|
| 11.1. Toxicity | Data following is based on information from similar products, the ingredients, technical literature, and/or professional experience; Avatar Corporation does not do testing on animals. No component of these products present at levels > 0.1% is identified as a carcinogen by the U.S. National Toxicology Program, U.S. Occupational Safety and Health Act, or the International Agency on Research on Cancer (IARC). |
| <i>Dermal (rabbits):</i> | PDIS < 4.0/8.0; LD ₅₀ > 2000 mg/kg |
| <i>Oral (rats):</i> | LD ₅₀ > 5000 mg/kg |
| <i>Eye Irritation (rabbits):</i> | PEIS < 10/110.0 |
| <i>Skin Irritation:</i> | Not a skin sensitizer when tested |
| <i>Carcinogenicity:</i> | EC CLP Note N applies. Full refining history is known and demonstrates non-carcinogenicity. |

12. ECOLOGICAL INFORMATION

| | |
|-----------------------------------|---|
| 12.1. Toxicity | When used and handled according to specifications, these products have no harmful effects according to our experience and the information provided to us. |
| 12.2. Persistence / degradability | No data available |
| 12.3. Bioaccumulation potential | No data available |
| 12.4. Mobility in soil | No data available |
| 12.5. PBT / vPvB assessment | These substances/mixtures does not meet the PBT/vPvB criteria of REACH, annex XIII. |
| 12.6. Other adverse effects | No data available |

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13. DISPOSAL INFORMATION

13.1. Waste treatment methods Disposal must be in accordance with applicable federal, state, or local regulations. "Empty" drums should not be given to individuals.

14. TRANSPORTATION INFORMATION

14.1. General Information Not regulated by U.S. DOT, Canadian TODG, IMO/IMDG, ICAO/IATA, ADR/RID

15. REGULATORY INFORMATION

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

| | |
|---|------------------------|
| <i>CERCLA Sections 102A/103 Hazardous Substances:</i> | Not reportable |
| <i>SARA Title III Section 302 Extremely Hazardous Substances:</i> | Not regulated |
| <i>SARA Title III Sections 311/312 Hazardous Categorization:</i> | None |
| <i>SARA Title III Section 313:</i> | Not regulated |
| <i>U.S. Inventory (TSCA):</i> | Listed on inventory |
| <i>OSHA Hazard Communication Standard:</i> | Listed by ACGIH, OSHA. |
| <i>WHMIS Controlled Product Classification:</i> | Not listed |
| <i>Regulation (EC) 1907/2006 as amended:</i> | Compliant |
| <i>Regulation (EC) 1272/2008 as amended:</i> | Compliant |
| <i>Directive 1999/45/EC as amended:</i> | Compliant |
| <i>Directive 67/548/EEC as amended:</i> | Compliant |

FOOD CONTACT STATUS

FDA 21 CFR 172.878, 178.3570, 178.3620(a), 573.680: Compliant

Kosher Certification: Compliant

15.2. Chemical safety assessment Incomplete

16. OTHER INFORMATION

This material safety data sheet and the information it contains are offered in good faith as accurate. We have reviewed any information contained in this data sheet, which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use product(s) safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.

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Revision History

| Date | Revision No. | Purpose | Authorized By |
|--------|--------------|---------------------------------------|------------------|
| 111513 | 1XXXXXX-01 | Initial | J.P. Roush, M.S. |
| 061914 | 11111111-02 | Addition of tocopherol to ingredients | J.P. Roush, M.S. |