

Baccarat™

MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

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|----------------------|--|
| Material name | Baccarat™ |
| Issue date | 19Dec2014 |
| CAS # | Mixture |
| Supplier information | Sipcam Agro USA, Inc. 2525 Meridian Parkway, Suite 350 Durham, NC 2713 919-226-1195 |

2. Hazards Identification

| | |
|--------------------------|--|
| Emergency overview | May be irritating to eyes. |
| OSHA regulatory status | This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). |
| Potential health effects | |
| Routes of exposure | Inhalation. Eye contact. |
| Eyes | May cause eye irritation. |
| Skin | Health injuries are not known or expected under normal use. |
| Inhalation | Prolonged inhalation may be harmful. Health injuries are not known or expected under normal use. |
| Ingestion | Health injuries are not known or expected under normal use. |

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|--|------------|---------|
| LEONARDITE | 68525-81-5 | 20-40 |
| Other components below reportable levels | | 60-80 |

4. First Aid Measures

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|----------------------|---|
| First aid procedures | |
| First aid procedures | |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Skin contact | Rinse skin with water/shower. Get medical attention if irritation develops and persists. |
| Inhalation | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist. |
| Ingestion | Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. |

5. Fire Fighting Measures

| | |
|-------------------------------------|--|
| Flammable properties | The product is not flammable. No unusual fire or explosion hazards noted. |
| Extinguishing media | |
| Suitable extinguishing media | Water |
| Unsuitable extinguishing media | Fog |
| Firefighting equipment/instructions | Water. Do not use water jet as an extinguisher, as this will spread the fire. Not available. |

6. Accidental Release Measures

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|----------------------------------|--|
| Personal precautions | Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. |
| Methods for containment | Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. |
| Methods for cleaning up | <p>This product is miscible in water.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> |

7. Handling and Storage

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

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|-----------------|--|
| Handling | Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Handle and open container with care. |
| Storage | Keep at temperatures between -5 and 35°C. Use care in handling/storage. |

8. Exposure Controls / Personal Protection

| | |
|---------------------------------------|---|
| Engineering controls | Ensure adequate ventilation, especially in confined areas. |
| Personal protective equipment | |
| Eye / face protection | Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended. Applicable for industrial settings only. |
| Skin protection | Applicable for industrial settings only. |
| Respiratory protection | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Applicable for <i>industrial settings only</i> . |
| General hygiene considerations | Avoid contact with eyes. |

9. Physical & Chemical Properties

| | |
|--|---------------------------|
| Appearance | Liquid |
| Physical state | Liquid |
| Form | Liquid |
| Color | Dark brown. Black. |
| Odor | Slight. Characteristic |
| Odor threshold | Not available |
| pH | 3.5 - 5 |
| Vapor pressure | 2.3 kPa estimated |
| Vapor density | 0.62 estimated |
| Boiling point | 212 °F (100 °C) estimated |
| Melting point/Freezing point | 32 °F (0 °C) |
| Solubility (water) | Dispersible |
| Specific gravity | 1.1 |
| Relative density | Not available |
| Flash point | Not available |
| Flammability limits in air, upper, % by volume | Not available |
| Flammability limits in air, lower, % by volume | Not available |
| Auto-ignition temperature | Not available. estimated |
| Other data | |
| Density | 1100.00 g/l |

10. Chemical Stability & Reactivity Information

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|----------------------------------|---|
| Chemical stability | Material is stable under normal conditions. |
| Conditions to avoid | High temperatures |
| Incompatible materials | Not available |
| Hazardous decomposition products | Irritants |

11. Toxicological Information

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|---------------------------|---|
| Local effects | May be irritating to eyes. |
| Chronic effects | Prolonged inhalation may be harmful. |
| Carcinogenicity | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Due to lack of data the classification is not possible. |
| Skin corrosion/irritation | Due to lack of data the classification is not possible. |
| Mutagenicity | Due to lack of data the classification is not possible. |
| Reproductive effects | Due to lack of data the classification is not possible. |

12. Ecological Information

| | |
|---------------------------------|--|
| Environmental effects | Not classified as an environmental hazard. |
| Persistence and degradability | Not available. |
| Bioaccumulation / Accumulation | |
| Mobility in environmental media | This product is miscible in water. |

13. Disposal Considerations

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|---------------------------------------|---|
| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations. |
| Waste from residues / unused products | Not applicable |

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT: Not regulated as dangerous goods.
IATA: Not regulated as dangerous goods.
IMDG: Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119. One or more components are not listed on TSCA.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)) Not regulated.

DEA Essential Chemical Code Number Not regulated.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) Not regulated.

DEA Exempt Chemical Mixtures Code Number Not regulated.

CERCLA (Superfund) reportable quantity None

Superfund Amendments and Reauthorization Act of 1986(SARA) Immediate Hazard - No
Delayed Hazard - No

Hazard categories Fire Hazard - No Pressure
Hazard - No Reactivity
Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical inventory status No

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

16. Other Information

Further information This safety datasheet only contains information relating to safety and does not replace any product information or product specification. HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 2
Flammability: 0
Physical hazard: 0

NFPA ratings

Health: 2 Flammability: 0
Instability: 0

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.

This data sheet contains changes from the previous version in section(s): Product and Company Identification: Alternate Trade Names