1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier
Product Code 40300451
Product name KEYAZINE™ MALACHITE GREEN POWDER

Recommended use of the chemical and restrictions on use
Synonyms N/A

Supplier's details
Recommended use Industrial Use Only.
Uses advised against No information available

Details of the Supplier of the Safety Data Sheet
Keystone Corporate Office
2501 W Fulton Street
Chicago, IL 60612
Ph 312-666-2015
Ph 1-800-522-4393

Emergency Telephone Number
USA: 1-800-255-3924
China: (400-1)-400-120-0751
Other: Collect 1-813-248-0585

2. Hazards Identification

Classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Acute aquatic toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Chronic Aquatic Toxicity</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

EMERGENCY OVERVIEW

signal word DANGER

hazard statements
H302 - Harmful if swallowed
H318 - Causes serious eye damage
H361 - Suspected of damaging fertility or the unborn child
H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements

P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P330 - Rinse mouth
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P405 - Store locked up
P273 - Avoid release to the environment
P501 - Dispose of contents/container to an approved waste disposal plant
P391 - Collect spillage

Hazards Not Otherwise Classified (HNOC)

Other information

3. Composition/information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC GREEN 4</td>
<td>569-64-2</td>
<td>100%</td>
<td>*</td>
</tr>
</tbody>
</table>

4. First aid measures

First aid measures for different exposure routes

General Advice
If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye Contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact
Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is not required. If skin irritation persists, call a physician.

INHALATION
Move to fresh air. Consult a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

INGESTION
Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

Protection of First-aiders
Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Main Symptoms
No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician
Treat symptomatically.

www.Lagunaclay.com  800-452-4862  info@lagunaclay.com
5. Fire-fighting measures

**Suitable extinguishing media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Keep away from heat and sources of ignition.

**Specific Hazards Arising from the Chemical**
No information available.

**Explosion Data**
- **Sensitivity to Mechanical Impact**: None.
- **Sensitivity to Static Discharge**: Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Protective Equipment and Precautions for Firefighters**
Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**
Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Environmental Precautions**

**Environmental Precautions**
Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods and materials for containment and cleaning up**

**Methods for containment**
Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**
Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers.

7. Handling and Storage

**Precautions for Safe Handling**

**Advice on safe handling**
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product. Use only in area provided with appropriate exhaust ventilation.

**Conditions for safe storage, including any incompatibilities**

**Technical measures/Storage conditions**
Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

**Incompatible Products**
None known based on information supplied.

8. Exposure Controls/Personal Protection

**Control Parameters**

**Exposure guidelines**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC GREEN 4</td>
<td>500</td>
<td>-</td>
<td>No information available</td>
</tr>
</tbody>
</table>

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Exposure Controls

Engineering Measures
- Showers
- Eyewash stations
- Ventilation systems. Apply technical measures to comply with the occupational exposure limits. Process enclosure and/or ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection
- Tightly fitting safety goggles. Face-shield. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substances; this is irrespective of the recommendation involving the wearing of eye protection. Avoid contact with eyes.

Skin and Body Protection
- Skin and Body Protection. Wear protective gloves and protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection
- If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures
- When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product.

9. Physical and Chemical Properties

Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>VALUES</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Powder</td>
<td></td>
</tr>
<tr>
<td>appearance</td>
<td>dark powder</td>
<td></td>
</tr>
<tr>
<td>odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
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<td></td>
</tr>
<tr>
<td>pH</td>
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</tr>
<tr>
<td>melting point</td>
<td></td>
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</tr>
<tr>
<td>Boiling point/boiling range</td>
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<tr>
<td>Flash Point</td>
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<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
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</tr>
<tr>
<td>flammability (solid, gas)</td>
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<td>no data available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
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<td></td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
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<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
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<td></td>
</tr>
<tr>
<td>vapor pressure</td>
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<td></td>
</tr>
<tr>
<td>Vapor Density</td>
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</tr>
<tr>
<td>Specific gravity</td>
<td>No information available</td>
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<tr>
<td>Solubility in Other Solvents</td>
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<tr>
<td>Partition coefficient: n-octanol/water</td>
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</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No Data Available</td>
<td>N/A</td>
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<tr>
<td>decomposition temperature</td>
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<tr>
<td>Kinematic viscosity</td>
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</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No information available</td>
<td></td>
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<tr>
<td>Explosive Properties</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
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</tbody>
</table>

OTHER INFORMATION

- softening point: No information available
- Molecular Weight: No information available
- VOC Content(%): No information available
- density: No information available

10. Stability and Reactivity
Reactivity
no data available

Chemical Stability
Stable under recommended storage conditions.

Hazardous Reactions
None under normal processing

Conditions to avoid
Extremes of temperature and direct sunlight.

incompatible materials
None known based on information supplied.

Hazardous decomposition products
May emit toxic fumes under fire conditions.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information

INHALATION
Avoid breathing vapors or mists.

Eye Contact
Corrosive to the eyes and may cause severe damage including blindness.

Skin Contact
Avoid contact with skin.

INGESTION
HARMFUL IF SWALLOWED.

Information on Toxicological Effects

Symptoms
No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

sensitization
No information available.

Germ cell mutagenicity
No information available.

carcinogenicity
No information available.

Reproductive Toxicity
Contains a known or suspected reproductive toxin.

Specific target organ systemic toxicity (single exposure)
No information available.

Specific target organ systemic toxicity (repeated exposure)
No information available.

Chronic toxicity
Avoid repeated exposure.

Aspiration Hazard
No information available.

Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 500 mg/kg

12. Ecological Information

ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC GREEN 4 569-64-2</td>
<td>96-h LC50: 0.03 mg/l (Lepomis macrochirus) 96-h LC50: 0.12 (Pimelas promelas) 96-h LC50: 0.14 mg/l (Ictalurus punctatus)</td>
<td>48-h EC50: 0.29 mg/l (Daphnia magna)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Persistence and Degradability
No information available.

Bioaccumulation
No information available.

Other Adverse Effects
No information available

13. Disposal Considerations

Waste treatment

Waste Disposal Methods
Should not be released into the environment. Dispose of in accordance with local regulations. This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261).

Contaminated Packaging
Do not re-use empty containers. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT
Description
Not regulated in non-bulk (drum) quantities (See 49 CFR 171.4 (c) Except when all or part of transportation is by vessel requirements of this subchapter do not apply to non-bulk packaging transported by motor vehicle, rail car, or aircraft)

MEX

IATA
Description
Not regulated in non-bulk (drum) quantities (See 49 CFR 171.4 (c) Except when all or part of transportation is by vessel requirements of this subchapter do not apply to non-bulk packaging transported by motor vehicle, rail car, or aircraft)

IMDG

UN/ID no
UN3077
Proper Shipping Name
Environmentally hazardous substances, solid, n.o.s.
Hazard class
9
Packing group
III
Marine Pollutant
This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
Description
UN3077, environmentally hazardous liquid, n.o.s., (Basic Green 4), 9 , PG III

RID

ADN

15. Regulatory Information

International Inventories

TSCA
Listed
EINECS/ELINCS
Listed
DSL
Listed
NDSL
Not Determined
PICCS
Listed
ENCS
Listed
IECSC Listed
AICS Listed
KECL Listed
NZIoC Listed

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

REACH registration number Keystone has taken all relative steps to ensure REACH-Compliance. Please contact us with any REACH-Related questions at REACH@Keystone-Europe.CO.UK

RESTRICTIONS - REACH TITLE VII No information available

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC GREEN 4</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

- Acute health hazard YES.
- Chronic health hazard YES.
- Fire hazard NO.
- Sudden Release of Pressure Hazard NO.
- Reactive Hazard NO.

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC GREEN 4</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

International regulations
www.Lagunaclay.com 800-452-4862 info@lagunaclay.com
**CANADA**

**WHMIS Note**
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**
D2B  Toxic materials

![Icon]

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>flammability</th>
<th>Physical hazard</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>F</td>
</tr>
</tbody>
</table>

**16. Other Information**

Revision Date 17-Aug-2015
Revision note No information available.
Restrictions on use No information available.
Contact Information Website WWW.DYES.COM.

**Disclaimer**
The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Material Safety Data Sheet**