

# SAFETY DATA SHEET

Effective Date: 01-Jan-2021 Version 1.0

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier Product Name Catalogue No.

Methylene Green, zinc chloride double salt S10119

**Recommended use of the chemical and restrictions on use** For research use only. Not intended for diagnostic or therapeutic use.

Details of the supplier of the safety data sheet DAWN SCIENTIFIC 121 Liberty Street, Metuchen, NJ 1-800-DAWN-SCI | 732-902-6300 Emergency telephone number Chemtrec 800.424.9300 (Within USA) 1.703.527.3887 (Outside USA)

# 2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification

Acute toxicity - Oral Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (single exposure)

Label elements Signal word Hazard statements

Symbols/Pictograms

Precautionary Statements - Prevention

Category 4 Category 2 Category 2A Category 3

Warning HARMFUL IF SWALLOWED Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area



| Precautionary Statements - Response | IF exposed or concerned: Get medical advice/attention<br>IF IN EYES: Rinse cautiously with water for several minutes. |
|-------------------------------------|---|
|                                     | Remove contact lenses, if present and easy to do. Continue  |
|                                     | rinsing   |
|                                     | If eye irritation persists: Get medical advice/attention  |
|                                     | IF ON SKIN: Wash with plenty of soap and water  |
|                                     | If skin irritation occurs: Get medical advice/attention   |
|                                     | Take off contaminated clothing and wash before reuse  |
|                                     | IF INHALED: Remove victim to fresh air and keep at rest in a<br>position comfortable for breathing                    |
|                                     | Call a POISON CENTER or doctor/physician if you feel unwell   |
|                                     | IF SWALLOWED: Call a POISON CENTER or doctor/physician if<br>you feel unwell  |
|                                     | Rinse mouth   |
| Precautionary Statements - Storage  | Store in a well-ventilated place. Keep container tightly closed Store locked up                                       |
| Precautionary Statements - Disposal | Dispose of contents/container to an approved waste disposal<br>plant  |

# Hazards not otherwise classified (HNOC) Hazards not otherwise classified (HNOC)

# **Other Information**

| NFPA | Health hazards<br>Flammability<br>Stability<br>Physical and chemical<br>properties | 0<br>0<br>0 | HMIS | Health hazards<br>Flammability<br>Physical hazards<br>Personal protection |  |
|------|--|-------------|------|---|--|
|      | properties   |             |      |   |  |

Not applicable

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

| CAS No           | 224967-52-6                |
|------------------|----------------------------|
| Molecular Weight | 866.00                     |
| Formula          | (C16H17CIN4O2S)2•ZnCl2•2Cl |

| Chemical Name        | CAS No         | Weight %              | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------|----------------|-----------------------|-----------|-------------|-----------------|
| Methylene Green, zin | :2240467e5206b | le sal≯ <sup>98</sup> | -         | -           | -               |

# **4. FIRST AID MEASURES**

| First Aid Measures |  |
|--------------------|--|
|                    |  |
| 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.  |
| Skin Contact       | Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Immediate medical attention is not required.  |
| Inhalation         | Remove to fresh air Call a physician If breathing is irregular or stopped, administer artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation Artificial respiration and/or oxygen may be necessary Immediate medical attention is not required Move to fresh air in case of accidental inhalation of vapors If symptoms persist, call a physician |

0 0 0



| Ingestion<br>Self-protection of the first aider | 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. Call a physician. Use personal protective equipment as required. |
|---|---|
| Most important symptoms and Symptoms            | d effects, both acute and delayed<br>No information available.  |
|   |   |

Indication of any immediate medical attention and special treatment needed Note to physicians Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

### Suitable Extinguishing Media

| Suitable Extinguishing Media               | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|--|---|
| Unsuitable Extinguishing Media             | None.   |
| Specific hazards arising from the          | e chemical  |
| Specific hazards arising from the chemical | Thermal decomposition can lead to release of toxic/corrosive gases and vapors.                          |
| Hazardous combustion products              | Carbon oxides. Nitrogen oxides (NOx). Phosgene. Hydrogen sulfide.                                       |
| Explosion data                             |   |
| Sensitivity to Mechanical Impact           | No information available.   |
| Sensitivity to Static Discharge            | No information available.   |

### Protective equipment and precautions for firefighters

Protective equipment and precautions As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protectiv<br>Personal precautions                                | e equipment and emergency procedures<br>Use personal protective equipment as required. Evacuate personnel to safe areas. Keep<br>people away from and upwind of spill/leak.   |
|--|---|
| Environmental precautions<br>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. See Section 12 for additional Ecological Information.  |
| Methods and material for contain<br>Methods for containment<br>Methods for cleaning up | inment and cleaning up<br>Prevent further leakage or spillage if safe to do so.<br>Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp<br>to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate<br>containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak<br>up with inert absorbent material. Dam up. Pick up and transfer to properly labeled<br>containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush<br>away traces with water. Take precautionary measures against static discharges. |

# 7. HANDLING AND STORAGE



| Precautions for safe handling<br>Advice on safe handling | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.<br>Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray.<br>Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.<br>Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Thermal |
|--|--|
|  | decomposition can lead to release of toxic/corrosive gases and vapors.   |
| Conditions for safe storage, i                           | ncluding any incompatibilities   |
| Storage Conditions                                       | Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of<br>children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly<br>labeled containers. Store at room temperature.  |
| Incompatible materials                                   | None known based on information supplied.  |

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| <b>Control parameters</b><br>Exposure Guidelines       | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.   |
|--|---|
| Appropriate engineering contro<br>Engineering Controls | Is<br>Showers<br>Eyewash stations<br>Ventilation systems  |
| Individual protection measures,                        | such as personal protective equipment   |
| Eye/face protection                                    | Tight sealing safety goggles. Face protection shield.   |
| Skin and Body Protection                               | Wear protective gloves and protective clothing.   |
| Respiratory protection                                 | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| General Hygiene Considerations                         | When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.  |

# 9. PHYSICAL AND CHEMICAL PROPERTIES

| <b>Physical State</b> |
|-----------------------|
| Appearance            |
| Odor                  |
|                       |

Solid powder No information available

### Property

pH Melting point/freezing point Boiling point Flash point Density Evaporation rate Upper flammability limits Lower flammability limit Vapor pressure Vapor density Specific gravity Water solubility Solubility in other solvents Partition coefficient

### Values

No information available No information available



Autoignition temperature Decomposition temperature Kinematic viscosity Explosive properties Oxidizing properties No information available No information available No information available No information available No information available

# **10. STABILITY AND REACTIVITY**

| Reactivity                         | Not applicable  |
|------------------------------------|---|
| Chemical stability                 | Stable under recommended storage conditions.                      |
| Possibility of Hazardous Reactions | None under normal processing.                                     |
| Hazardous polymerization           | No information available.   |
| Conditions to avoid                | Extremes of temperature and direct sunlight.                      |
| Incompatible materials             | Strong oxidizing agents.  |
| Hazardous Decomposition Products   | Carbon oxides. Nitrogen oxides (NOx). Phosgene. Hydrogen sulfide. |

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposureInhalationNo data available.Eye contactNo data available.Skin ContactNo data available.IngestionNo data available.Information on toxicological effectsSymptomsNo information available.Delayed and immediate effects as well as chronic effects from short and long-term exposureChronic ToxicityAvoid repeated exposure.

### Numerical measures of toxicity - Product Information

Unknown acute toxicity No information available The following values are calculated based on chapter 3.1 of the GHS document ATEmix (oral) 500 mg/kg

# **12. ECOLOGICAL INFORMATION**

| Ecotoxicity | May cause long lasting harmful effects to aquatic life |
|-------------|--|
|             |  |

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

| Persistence and degradability | No information available. |
|-------------------------------|---------------------------|
| Bioaccumulation               | No information available. |
| Mobility                      | No information available. |

# **13. DISPOSAL CONSIDERATIONS**

| Disposal of wastes     | Disposal should be in accordance with applicable regional, national and local laws and |
|------------------------|--|
| Contaminated packaging | regulations.<br>Do not reuse container.  |



Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

## **14. TRANSPORT INFORMATION**

| DOT  | Not regulated |
|------|---------------|
| IMDG | Not regulated |
| ΙΑΤΑ | Not regulated |

### **15. REGULATORY INFORMATION**

### International Inventories

All of the components in the product are on the following Inventory lists

No information available

X - Listed

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

### **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

| Acute health hazard               | Yes |
|-----------------------------------|-----|
| Chronic Health Hazard             | No  |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive hazard                   | No  |

### **CWA (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).

### US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations

### **16. OTHER INFORMATION**



### **Revision note**

No information available

### Disclaimer

The information provided in this Material 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 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.