

Methylene blue 1% Plus

Safety Data Sheet

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| | 1. Identification |
|---|--|
| Product Name | Methylene blue 1% Plus |
| Cat No. : | CG7097 |
| CAS No | 61-73-4 |
| Recommended Use Uses advised against | Laboratory chemicals. Food, drug, pesticide or biocidal product use. |
| Details of the supplier of the safet | y data sheet |
| Supplier: | DAWNSCI [®] Suite : C 121 Liberty street Metuchen, NJ 08840 T: 908-992-5004 |
| Emergency telephone number | Chemtrec 1-800-424-9300 |

2. Hazard(s) identification

Classification

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

Acute oral toxicity

Category 4

Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed



Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

| Component | CAS No | Weight % |
|----------------|-----------|----------|
| Methylene blue | 61-73-4 | 1% |
| Water | 7732-18-5 | 99% |

| 4. First-aid measures | | | |
|-------------------------------------|---|--|--|
| General Advice | If symptoms persist, call a physician. | | |
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. | | |
| Skin Contact | Wash o ffimmediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. | | |
| Inhalation | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. | | |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur. | | |
| Most important symptoms and effects | None reasonably foreseeable. | | |
| Notes to Physician | Treat symptomatically | | |
| 5. Fire-fighting measures | | | |

| Suitable Extinguishing Media | Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. |
|--------------------------------|--|
| Unsuitable Extinguishing Media | No information available |
| Flash Point Method - | No information available No information available |
| Autoignition Temperature | No information available |

| Explosion Limits | |
|----------------------------------|--------------------------|
| Upper | No data available |
| Lower | No data available |
| Sensitivity to Mechanical Impact | No information available |
| Sensitivity to Static Discharge | No information available |

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen chloride gas. **Protective Equipment and Precautions for Firefighters** 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 | Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. |
| Environmental Precautions | Should not be released into the environment. |
| Methods for Containment and Clear Up | Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. |
| | 7. Handling and storage |
| Handling | Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. |
| Storage. | Keep containers tightly closed in a dry, cool and well-ventilated place. |
| 8. Ex | posure controls / personal protection |
| Exposure Guidelines | This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies. |
| Engineering Measures | Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Personal Protective Equipment | |
| Eye/face Protection | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. |
| Skin and body protection | Wear appropriate protective gloves and clothing to prevent skin exposure. |
| Respiratory Protection | No protective equipment is needed under normal use conditions. |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice. |

9. Physical and chemical properties

Physical State Appearance Odor **Odor Threshold** pН **Melting Point/Range Boiling Point/Range** Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity

Liquid Blue Odorless No information available 3 - 4.5 No information available No information available No information available Not applicable No information available No data available No data available negligible Not applicable No information available Slightly soluble in water

Slightly soluble in water No data available No information available 190 °C Not applicable

10. Stability and reactivity

| Reactive Hazard | None known, based on information available | |
|--|---|--|
| Stability | Stable under normal conditions. | |
| Conditions to Avoid | Avoid dust formation. Incompatible products. Excess heat. | |
| Incompatible Materials | Strong oxidizing agents | |
| Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen chloride gas | | |
| Hazardous Polymerization | Hazardous polymerization does not occur. | |
| Hazardous Reactions | None under normal processing. | |

11. Toxicological information

Acute Toxicity

Product Information Component Information

| Compone | nt | LD50 Oral | | LD50 Dermal | LC50 | Inhalation |
|---|---------|-------------------------|--------------------|--------------------|--------------------|-----------------|
| Methylene blue | | _D50 = 1180 mg/kg (Rat) | | Not listed | Nc | t listed |
| Foxicologically Syr Products Delayed and imme | - | No information ava | | d long-term expo | osure_ | |
| rritation | | Irritating to eyes, re | espiratory system | and skin | | |
| Sensitization | | No information ava | ailable | | | |
| Carcinogenicity | | The table below in | dicates whether ea | ach agency has lis | ted any ingredient | as a carcinogen |
| Component | CAS No | IARC | NTP | ACGIH | OSHA | Mexico |
| Methylene blue | 61-73-4 | Not listed | Not listed | Not listed | Not listed | Not listed |

| Mutagenic Effects | No information available | | |
|--|--|--|--|
| Reproductive Effects | No information available. | | |
| Developmental Effects | No information available. | | |
| Teratogenicity | No information available. | | |
| STOT - single exposure STOT - repeated exposure | None known None known | | |
| Aspiration hazard | No information available | | |
| Symptoms / effects,both acute and delayed | No information available | | |
| Endocrine Disruptor Information | No information available | | |
| Other Adverse Effects | The toxicological properties have not been fully investigated. | | |
| | 12. Ecological information | | |
| Ecotoxicity Do not empty into drains. | | | |

| Persistence and Degradability | Soluble in water Persistence is unlikely based on information available. |
|--------------------------------------|--|
| Bioaccumulation/ Accumulation | No information available. |
| Mobility | Will likely be mobile in the environment due to its water solubility. |

 Use Disposal Methods
 Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

| 14. Transport information | | |
|-----------------------------|---------------|--|
| DOT | Not regulated | |
| DOT _ <u>TDG</u> IATA | Not regulated | |
| IATA | Not regulated | |
| IMDG/IMO | Not regulated | |
| 15. Regulatory information | | |

United States of America Inventory

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|----------------|---------|------|--|--------------------------------|
| Methylene blue | 61-73-4 | - | - | - |

Legend: TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component | CAS No | DSL | NDSL | EINECS | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|----------------|---------|-----|------|--------|-------|------|------|------|-------|------|
| Methylene blue | 61-73-4 | - | - | - | - | - | | - | - | - |

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

| SARA 313 | Not applicable |
|---|---|
| SARA 311/312 Hazard Categories | See section 2 for more information |
| CWA (Clean Water Act) | Not applicable |
| Clean Air Act | Not applicable |
| OSHA - Occupational Safety and Health Administration | Not applicable |
| CERCLA | Not applicable |
| California Proposition 65 | This product does not contain any Proposition 65 chemicals. |

U.S. State Right-to-Know Regulations

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------|---------------|------------|--------------|----------|--------------|
| Methylene blue | - | - | - | Х | - |

U.S. Department of Transportation

| Reportable Quantity (RQ): | Ν |
|-----------------------------|---|
| DOT Marine Pollutant | Ν |
| DOT Severe Marine Pollutant | Ν |
| | |

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

| Component | · · · · · · | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | 3 (|
|----------------|-------------|---|------------|
| Methylene blue | - | Use restricted. See item 75. (see link for restriction details) | - |

https://echa.europa.eu/substances-restricted-under-reach

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

| Component | CAS No | OECD HPV | Persistent Organic | Ozone Depletion | Restriction of |
|-----------|--------|----------|--------------------|-----------------|----------------|
| | | | Pollutant | Potential | Hazardous |

| | | | | | Substances (RoHS) |
|----------------|---------|----------------|----------------|----------------|-------------------|
| Methylene blue | 61-73-4 | Not applicable | Not applicable | Not applicable | Not applicable |

| Component | CAS No | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|----------------|---------|---|--|-------------------------------|---------------------------------------|
| Methylene blue | 61-73-4 | Not applicable | Not applicable | Not applicable | Not applicable |

16. Other information

<u>NFPA</u>

Ceiling

Health hazards2Flammability0Instability0Physical and chemical properties-HMIS1Health hazards2Flammability0Physical hazards0Personal protectionX

Key or legend to abbreviations and acronyms used in the safety data sheet

LegendSection 8: EXPOSURE CONTROLS/PERSONAL PROTECTIONTWATWA (time-weighted average)STEL

Maximum limit value

STEL (Short Term Exposure Limit)

Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

SDS US Dawn sci

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