

# **SAFETY DATA SHEET**

Revision Date 24-Dec-2021 Revision Number 4

1. Identification

Product Name New Methylene Blue N, zinc chloride double salt

Cat No.: AC192020000; AC192020100

Synonyms C.I. 52030; Basic Blue 24

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Label Elements

None required

#### Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

| Component  | CAS No    | Weight % |
|--|-----------|----------|
| 3,7-Bis(ethylamino)-2,8-dimethylphenothiazin-5-ium | 6586-05-6 | 100      |
| chloride, compound with zinc chloride              |           |          |

### 4. First-aid measures

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention. Take off contaminated clothing and shoes

immediately.

**Inhalation** Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial

respiration. Immediate medical attention is required.

**Ingestion** Never give anything by mouth to an unconscious person. Drink plenty of water. Call a

physician immediately. If possible drink milk afterwards.

Most important symptoms and

effects

**Notes to Physician** 

No information available.

Treat symptomatically

## 5. Fire-fighting measures

surrounding environment.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

Not applicable

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**

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Thermal decomposition can lead to release of irritating gases and vapors. Zinc. Heavy metal oxides.

### **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. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

HealthFlammabilityInstabilityPhysical hazards010N/A

### 6. Accidental release measures

Personal Precautions
Environmental Precautions

Ensure adequate ventilation. Use personal protective equipment as required. See Section 12 for additional Ecological Information. Should not be released into the environment. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal.

7. Handling and storage

Avoid contact with skin and eyes. Avoid contact with skin and clothing, Remove and wash Handling

contaminated clothing and gloves, including the inside, before re-use. Avoid breathing vapors or mists. Do not ingest. If swallowed then seek immediate medical assistance. Wash

thoroughly after handling.

Storage. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible

Materials. Oxidizing agent.

8. Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure **Exposure Guidelines** 

limitsestablished by the region specific regulatory bodies.

**Engineering Measures** None under normal use conditions.

Personal Protective Equipment

**Eye/face Protection** Wear appropriate protective eveglasses or chemical safety googles as described by

OSHA's eve 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.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

9. Physical and chemical properties

**Physical State** Powder Solid

**Appearance** Dark brown

No information available Odor No information available **Odor Threshold** 

No information available pН

No data available **Melting Point/Range Boiling Point/Range** No information available **Flash Point** No information available

**Evaporation Rate** Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

No data available Upper Lower No data available **Vapor Pressure** No information available

Not applicable **Vapor Density** 

**Specific Gravity** No information available No information available Solubility Partition coefficient; n-octanol/water No data available

**Autoignition Temperature** Not applicable

**Decomposition Temperature** No information available

**Viscosity** Not applicable

**Molecular Formula** C18 H22 CI N3 S . 0.5 Zn Cl2

**Molecular Weight** 416.04

## 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stability Stable under normal conditions.

Incompatible products. **Conditions to Avoid** 

**Incompatible Materials** Oxidizing agent

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors, Zinc, Heavy

metal oxides

Hazardous polymerization does not occur. **Hazardous Polymerization** 

**Hazardous Reactions** None under normal processing.

### 11. Toxicological information

No acute toxicity information is available for this product

**Acute Toxicity** 

**Product Information** 

**Component Information** 

No information available

**Toxicologically Synergistic Products** 

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

Irritation No information available

Sensitization No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

| Component              | CAS No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|------------------------|-----------|------------|------------|------------|------------|------------|
| 3,7-Bis(ethylamino)-2, | 6586-05-6 | Not listed |
| 8-dimethylphenothiazi  |           |            |            |            |            |            |
| n-5-ium chloride,      |           |            |            |            |            |            |
| compound with zinc     |           |            |            |            |            |            |
| chloride               |           |            |            |            |            |            |

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

No information available. **Teratogenicity** 

STOT - single exposure None known STOT - repeated exposure None known

**Aspiration hazard** No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

### 12. Ecological information

### New Methylene Blue N, zinc chloride double salt

#### **Ecotoxicity**

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability May persist

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

## 13. Disposal considerations

Waste 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

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

### 15. Regulatory information

### **United States of America Inventory**

| Component                         | CAS No    | TSCA | TSCA Inventory notification -<br>Active-Inactive | TSCA - EPA Regulatory Flags |
|-----------------------------------|-----------|------|--|-----------------------------|
| 3,7-Bis(ethylamino)-2,8-dimethylp | 6586-05-6 | -    | -  | -                           |
| henothiazin-5-ium chloride,       |           |      |  |                             |
| compound with zinc chloride       |           |      |  |                             |

#### 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 |
|-----------------------------------|-----------|-----|------|-----------|-------|------|------|------|-------|------|
| 3,7-Bis(ethylamino)-2,8-dimethylp | 6586-05-6 | -   | -    | 229-516-6 | -     | -    |      | -    | -     | -    |
| henothiazin-5-ium chloride,       |           |     |      |           |       |      |      |      |       |      |
| compound with zinc chloride       |           |     |      |           |       |      |      |      |       |      |

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

### U.S. Federal Regulations

SARA 313 Not applicable

| Component  | CAS No    | Weight % | SARA 313 - Threshold<br>Values % |
|--|-----------|----------|----------------------------------|
| 3,7-Bis(ethylamino)-2,8-dimethylphenothiazin-5-ium chloride, compound with zinc chloride | 6586-05-6 | 100      | 1.0                              |

### SARA 311/312 Hazard Categories See section 2 for more information

| CWA (Clean Water Act) | Not applicable  |                  |                        |                           |
|-----------------------|-----------------|------------------|------------------------|---------------------------|
| Component             | CWA - Hazardous | CWA - Reportable | CWA - Toxic Pollutants | CWA - Priority Pollutants |

|                                 | Substances | Quantities |   |   |
|---------------------------------|------------|------------|---|---|
| 3,7-Bis(ethylamino)-2,8-dimethy | -          | -          | X | - |
| lphenothiazin-5-ium chloride,   |            |            |   |   |
| compound with zinc chloride     |            |            |   |   |

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

Not applicable

| Component                 | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|---------------------------|---------------|------------|--------------|----------|--------------|
| 3,7-Bis(ethylamino)-2,8-d | -             | X          | X            | -        | -            |
| imethylphenothiazin-5-iu  |               |            |              |          |              |
| m chloride, compound      |               |            |              |          |              |
| with zinc chloride        |               |            |              |          |              |

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

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

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

| Component  | CAS No | OECD HPV       | Persistent Organic<br>Pollutant | Ozone Depletion<br>Potential | Restriction of<br>Hazardous<br>Substances (RoHS) |
|--|--------|----------------|---------------------------------|------------------------------|--|
| 3,7-Bis(ethylamino)-2,8-dimet<br>hylphenothiazin-5-ium<br>chloride, compound with zinc<br>chloride |        | Not applicable | Not applicable                  | Not applicable               | Not applicable                                   |

| Component  | CAS No | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Major Accident<br>Notification | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Safety Report<br>Requirements | Rotterdam<br>Convention (PIC) | Basel Convention<br>(Hazardous Waste) |
|--|--------|---|--|-------------------------------|---------------------------------------|
| 3,7-Bis(ethylamino)-2,8-dimet<br>hylphenothiazin-5-ium<br>chloride, compound with zinc<br>chloride |        | Not applicable  | Not applicable   | Not applicable                | Annex I - Y23                         |

### 16. Other information

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**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **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 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

**End of SDS**