

**1 Identification of the substances/ mixture and of the company/ undertaking****1.1 Product Identifiers**

Product Number M1392  
Product Name Crystal Violet Pectate Medium  
REACH Registration Number This product is a mixture. Reach registration number is not available for this mixture.

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**1.2.1** Relevant identified uses Laboratory Chemicals, Analytical Purpose, Biochemical Analysis

**1.3 Details of the supplier of the safety data sheet**

Produced by HiMedia Laboratories Private Limited  
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**1.4 Emergency Tel. No.**

Emergency Tel. No. Please contact the regional HiMedia representation in your country

**2 Hazards Identification****2.1 Classification of the substance or mixture**

**CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]**

Skin corrosion or irritation, (Category 2), H315

**2.2 Label elements**

**Labeling according to Regulation (EC) No.1272/2008**



Pictogram  
Signal word Warning

Hazard Statement(s)

H315 Causes skin irritation

Precautionary Statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P332 + P313 IF SKIN irritation occurs: Get medical advice/attention

**2.3 Other Hazards**

None

### 3 Composition/Information On Ingredients

#### 3.2 Mixture

| Component                                 | Classification  | Concentration   |
|---|---|-----------------|
| Sodium nitrate                            |   |                 |
| CAS No. : 7631-99-4<br>EC No. : 231-554-3 | <b>As Per EC Regulation 1272/2008</b><br>Ox. Sol. 3; Acute Tox.oral 4; Skin Irrit. 2;<br>Eye Irrit. 2A; STOT SE 3 H272; H302;<br>H315; H319; H335 | >=1.0 - <=10.0% |

| Component   | Classification   | Concentration        |
|---|--|----------------------|
| Crystal violet  |  |                      |
| CAS No. : 548-62-9<br>EC No. : 208-953-6<br>Index-No : 612-204-00-2 | <b>As Per EC Regulation 1272/2008</b><br>Acute Tox.oral 4; Eye Dam. 1; Carc. 2;<br>Aquatic Chronic 1 H302; H318; H351;<br>H410 | >=0.001 -<br><=0.01% |

| Component                                | Classification   | Concentration  |
|--|--|----------------|
| Sodium lauryl sulphate (SLS)             |  |                |
| CAS No. : 151-21-3<br>EC No. : 205-788-1 | <b>As Per EC Regulation 1272/2008</b><br>Flam. Sol. 2; Acute Tox.oral 4; Acute<br>Tox. dermal. 3; Skin Irrit. 2; Eye Irrit. 2A;<br>STOT SE 3 H228; H302; H311; H315;<br>H319; H335 | >=0.1 - <=1.0% |

| Component                                  | Classification  | Concentration   |
|--|---|-----------------|
| Calcium chloride,dihydrate                 |   |                 |
| CAS No. : 10035-04-8<br>EC No. : 233-140-8 | <b>As Per EC Regulation 1272/2008</b><br>Eye Irrit. 2A H319 | >=1.0 - <=10.0% |

Refer Section 16 for complete statement of H codes and its classification

### 4 First Aid Measures

#### 4.1 Description of first aid measures

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

##### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### **In case of skin contact**

Wash with plenty of soap and water. Consult a physician.

##### **In case of eye contact**

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

##### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

No data available.

**4.3 Indication of immediate medical attention and special treatment needed**

No data available

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**5 Fire Fighting Measures**

**5.1 Extinguishing media**

***Suitable extinguishing media***

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

***Unsuitable extinguishing media***

No data available.

**5.2 Special hazards arising from the substance or mixture**

Nitrogen oxides (NO<sub>x</sub>), Sodium oxides, Calcium oxide, Hydrogen chloride gas

**5.3 Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary

**5.4 Further information**

No data available

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**6 Accidental Release Measures**

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

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see Section 13.

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**7 Handling and Storage**

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

***Recommended Storage Temperature*** : On receipt store between 10-30°C

**7.3 Specific end uses**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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**8 Exposure Controls/Personal Protection**

**8.1 Control parameters**

Components with workplace control parameters

## 8.2 Exposure controls

### **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

### **Personal protective equipment**

#### **Hygiene measure**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

#### **Eye/face protection**

Tightly fitting safety goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425/EEC and the standard EN ISO 374-1/2016 derived from it.

#### **Body protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Environment exposure controls**

Do not empty into drains.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |  |
|---|--|
| Appearance                              | Cream to yellow coloured homogeneous free flowing powder |
| Odour                                   | No data available  |
| Odour Threshold                         | No data available  |
| pH                                      | 7.00 - 7.40  |
| Melting/freezing point                  | No data available  |
| Initial boiling point and boiling range | No data available  |
| Flash point                             | No data available  |
| Flammability (Solid, gas)               | No data available  |
| Vapour pressure                         | No data available  |
| Relative density                        | No data available  |
| Water Solubility                        | No data available  |
| Partition coefficient: n-octanol/water  | No data available  |
| Autoignition Temperature                | No data available  |
| Viscosity                               | No data available  |
| Explosive properties                    | No data available  |

|                       |                   |
|-----------------------|-------------------|
| Oxidizing properties  | No data available |
| Vapour density        | No data available |
| Thermal decomposition | No data available |

## 9.2 Other safety information

No data available

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## 10 Stability and Reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Refer Section 5.2. Other Decomposition products not known.

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## 11 Toxicological Information

### 11.1 Information on toxicological effects

#### ***Acute toxicity***

No data available

#### ***Skin corrosion/irritation***

No data available

#### ***Serious eye damage/eye irritation***

No data available

#### ***Respiratory or skin sensitisation***

No data available

#### ***Germ cell mutagenicity***

No data available

#### ***Carcinogenicity***

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### ***Specific target organ toxicity- single exposure***

No data available

#### ***Aspiration hazard***

No data available

#### ***Potential Health Effects***

##### ***Inhalation***

REFER SECTION 2

##### ***Skin***

REFER SECTION 2

**Eyes**

REFER SECTION 2

**Ingestion**

REFER SECTION 2

## 11.2 Components

### **Crystal Violet**

*Acute Oral Toxicity*

Rat LD50: 420 mg/kg

*Eye Irritation*

Irritant to eyes

*CMR Effects*

*Carcinogenicity:*

Suspected of causing cancer

### **Additional Information:**

RTECS: BO9000000

### **Sodium Lauryl Sulphate**

*Acute oral toxicity*

Rat LD50: 1,427 mg/kg (As Per OECD Test Guideline 401)

*Acute dermal toxicity*

Rabbit LD50: > 2,000 mg/kg

*Skin irritation*

Rabbit Result: Irritations (As Per OECD Test Guideline 404)

*Eye irritation*

Rabbit Result: Irreversible effects on the eye

(As Per OECD Test Guideline 405)

*Sensitisation*

Guinea Pig Maximisation Test (GPMT)

Result :Negative (As Per IUCLID)

*Ames test*

Salmonella Typhimurium

Result: Negative (As Per OECD Test Guideline 471)

*Mutagenicity (mammal cell test)*

*Mouse lymphoma test*

Result: Negative (As Per OECD Test Guideline 476)

### **Additional information:**

RTECS WT1050000

### **Sodium nitrate**

*Acute Oral Toxicity*

Mouse LD50: 3500 mg/kg

Rabbit LD50: 2680 mg/kg

Rat LD50 : 1267 mg/kg

*Acute Inhalation Toxicity*

Rat LC50 : 5.5 mg/l; 4 h

**Additional Information**

RTECS: WC5600000

**12 Ecological Information**

**12.1 Toxicity**

No data available

**Components:**

**Crystal Violet**

*Toxicity to fish*

*S.gairdnerii* LC50: 0.7 mg/l; 96 h

*Toxicity to bacteria*

Bacteria EC50: 10-100 mg/l;96 h

**Components:**

**Sodium Lauryl Sulphate**

*Toxicity to fish*

*Pimephales promelas* (fathead minnow) LC50: 29 mg/l; 96 h

(As Per OECD Test Guideline 203)

*Toxicity to daphnia and other aquatic invertebrates*

*Daphnia magna* (Water flea) EC50: 6 mg/l; 48 h (As Per IUCLID)

*Toxicity to algae*

*Desmodesmus subspicatus*(green algae) Static test:EC50:

53 mg/l; 72h

*Toxicity to bacteria*

*Photobacterium phosphoreum* (formerly known as *V. fischeri*) Microtox test: EC50: 0.46 mg/l; 30 min (As Per IUCLID)

Activated sludge EC50:130 mg/l; 3 h (As Per OECD Test Guideline 209)

**Components**

**Sodium nitrate**

*Toxicity to Fish*

*Oncorhynchus mykiss* LC50 : 994.4 - 1107 mg/L; 96h

*Lepomis macrochirus* LC50: 2000 mg/L; 96h

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

No data available

### 13 Disposal Considerations

#### 13.1 Waste treatments methods

##### Product

Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose off this material.

#### 13.2 Contaminated packaging

Dispose of as unused product.

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### 14 Transport Information

#### 14.1 UN-No

ADNR : ADR : IATA\_C : IATA\_P : IMDG : RID :

#### 14.2 UN proper shipping name

ADNR : Not dangerous goods  
ADR : Not dangerous goods  
IATA\_C : Not dangerous goods  
IATA\_P : Not dangerous goods  
IMDG : Not dangerous goods  
RID : Not dangerous goods

#### 14.3 Transport hazard class(es)

ADNR : - ADR : - IATA\_C : - IATA\_P : - IMDG : - RID : -

#### 14.4 Packaging group

ADNR : ADR : IATA\_C : IATA\_P : IMDG : RID :

#### 14.5 Environmental hazards

ADNR : No ADR : No IMDG : Marine Pollutant No IATA\_C : No IATA\_P : No RID : No

#### 14.6 Special precautions for use

No data available

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### 15 Regulatory Information

This safety datasheet complies with the requirements of Regulation(EC) No. 1907/2006.

#### 15.1 Safety health and environment regulations/legislation specific for the substance or mixture

No data available

#### 15.2 Chemical Safety Assessment

No data available

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### 16 Other information

Text of H codes and classification mentioned in section 3

|      |                               |
|------|-------------------------------|
| H228 | Flammable solid               |
| H272 | May intensify fire; oxidizer  |
| H302 | Harmful if swallowed          |
| H311 | Toxic in contact with skin    |
| H315 | Causes skin irritation        |
| H318 | Causes serious eye damage     |
| H319 | Causes serious eye irritation |

|                      |   |
|----------------------|---|
| H335                 | May cause respiratory irritation  |
| H351                 | Suspected of causing cancer   |
| H410                 | Very toxic to aquatic life with long lasting effects                                      |
| Acute Tox. dermal. 3 | Acute toxicity, dermal, Category 3  |
| Acute Tox.oral 4     | Acute toxicity, oral, Category 4  |
| Aquatic Chronic 1    | Hazardous to the aquatic environment, long term hazard, Category 1                        |
| Carc. 2              | Carcinogenicity, Category 2   |
| Eye Dam. 1           | Serious eye damage or eye irritation, Category 1  |
| Eye Irrit. 2A        | Serious eye damage or eye irritation, Category 2A   |
| Flam. Sol. 2         | Flammable solids, Category 2  |
| Ox. Sol. 3           | Oxidising solids, Category 3  |
| Skin Irrit. 2        | Skin corrosion or irritation, Category 2  |
| STOT SE 3            | Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3 |

### Further Information

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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.