



Centre Anti-Poison pour le Québec: (800) 463-5060  
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## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

|                                                                                                                                                                   |                                    |                                             |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------|------------------------|
| Product Identifier<br>SAFRANINE O                                                                                                                                 |                                    | Product Use<br>Laboratory use               |                        |
| Chemical formula<br>C <sub>20</sub> H <sub>19</sub> ClN <sub>4</sub>                                                                                              |                                    | Product code<br>SP-0105                     | Molar weight<br>350,85 |
| Chemical name / Commercial name / Synonymous<br>C.I. Basic Red 2; 3,7-Diamino-2,8-dimethyl-5-phenylphenazinium chloride*, *Safranin T*, *Cotton Red, Gossypimine* |                                    |                                             |                        |
| Supplier's name<br>Laboratoire MAT                                                                                                                                |                                    | Address-Street<br>610, Adanac Street        |                        |
| City<br>Québec                                                                                                                                                    |                                    | Province<br>Québec                          |                        |
| Postal code<br>G1C 7B7                                                                                                                                            | Internet<br>www.labmat.com         | Phone number<br>418-660-8666 / 800-890-8666 |                        |
| Emergency phone                                                                                                                                                   | CANUTEC: 613-996-6666              | CENTRE ANTI-POISON DU QUÉBEC 800-463-5060   |                        |
| Date SDS<br>8/29/2019                                                                                                                                             | SDS Prepared by<br>Laboratoire MAT | E-Mail<br>labmat@labmat.com                 |                        |

### SECTION 02 - HAZARDS IDENTIFICATION

|                              |                                                                                                                                                                                                                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification WHIMS / GHS   | Serious eye damage/eye irritation - Serious eye damage category 1                                                                                                                                                                                                                                    |
| Signal Word                  | DANGER                                                                                                                                                                                                                                                                                               |
| Hazards statements (H)       | H318 Causes serious eye damage.                                                                                                                                                                                                                                                                      |
| Precautionary statements (P) | P280 Wear protective gloves/protective clothing/eye protection/face protection.<br>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 Immediately call a POISON CENTER or doctor/physician. |
| PICTOGRAMS                   |                                                                                                                                                                                                                                                                                                      |
| Other dangers                | NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)                                                                                                                                                                                                                                |
|                              | Health 1<br>Fire 0<br>Reactivity 0<br>Special danger                                                                                                                                                                                                                                                 |

### SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingrédients (Dénomination chimique / synonymes) | Numéro CAS et tout identificateur unique | Concentration (%) |
|-------------------------------------------------|------------------------------------------|-------------------|
| Safranine O                                     | 477-73-6                                 | <=100             |

## SECTION 04 - FIRST AID MEASURES

|                                                                        |                                                                                                                                                          |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>                                                     | Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention. |
| <b>Skin contact</b>                                                    | Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.                          |
| <b>Inhalation</b>                                                      | Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.                                                    |
| <b>Ingestion</b>                                                       | Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.                              |
| <b>Most important symptoms and effects (acute and delayed)</b>         | Ref. section 11.                                                                                                                                         |
| <b>Immediate medical attention and special treatment, if necessary</b> | In case of medical consultation, keep this sheet available.                                                                                              |
| <b>General advice</b>                                                  | Show this safety data sheet to the doctor in attendance.                                                                                                 |

## SECTION 05 - FIREFIGHTING MEASURES

|                                                                      |                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flammability</b>                                                  | No                                                                                                                                                                                                                                                        |
| <b>Ignition conditions</b>                                           | Heat, sparks and open flame.                                                                                                                                                                                                                              |
| <b>Suitable extinguishing media</b>                                  | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                                                                                                                  |
| <b>Unsuitable extinguishing media</b>                                | Data not available.                                                                                                                                                                                                                                       |
| <b>Hazardous combustion / decomposition products</b>                 | Hazardous decomposition products formed under fire conditions. Oxides of carbon, oxides of nitrogen (NO <sub>x</sub> ), Hydrogen chloride gas.                                                                                                            |
| <b>Special fire and explosion hazards</b>                            | May react violently with incompatible products (Ref Section 10).                                                                                                                                                                                          |
| <b>Special protective equipment and precautions for firefighters</b> | Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus. |

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

|                                                                                                            |                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods and materials for containment and cleaning up / Personnel precautions, protective equipment</b> | Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Pick up with a shovel or broom, taking care not to scatter dust. Clean and rinse with water. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains. |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 07 - HANDLING AND STORAGE

|                                    |                                                                                                                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conditions for safe storage</b> | Store in a cool, dry place. Store in a well-ventilated area. Keep container tightly closed and store away from heat, moisture and strong oxidizers.                               |
| <b>Methods of handling</b>         | Always open containers slowly to allow any excess pressure to vent. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. |

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

| Components  | CAS-No.  | Control        | Value             | Basis                                                                                                                                   |
|-------------|----------|----------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| SAFRANINE O | 477-73-6 | TLV, TWA, STEL | No data available | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)                                                                     |
|             |          | TLV, TWA, STEL | No data available | Canada. British Columbia OEL                                                                                                            |
|             |          | TLV, TWA, STEL | No data available | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |

|                     |                                                                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ventilation         | Use fan.                                                                                                                                                                                       |
| Respiratory         | If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.                                                              |
| Gloves              | Handle with gloves.                                                                                                                                                                            |
| Eyes                | Safety goggles with safety shutters.                                                                                                                                                           |
| Shoes               | Safety shoes.                                                                                                                                                                                  |
| Clothing            | Labcoat.                                                                                                                                                                                       |
| Engineering control | Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values. |

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Physical state                        | Solid.                          |
| Appearance                            | Poudre brun-vert à brun foncé.. |
| Odour                                 | Donnée non disponible.          |
| Odour threshold                       | Data not available              |
| pH                                    | Donnée non-disponible.          |
| Melting point / Freezing point        | Data not available              |
| Initial boiling point                 | Data not available              |
| Boiling range                         | Data not available              |
| Flash point                           | Data not available              |
| Evaporation rate                      | Data not available              |
| Flammability                          | No                              |
| Lower flammable / Explosive limit     | Data not available              |
| Upper flammable / Explosive limit     | Data not available              |
| Vapour pressure                       | Data not available              |
| Vapour density                        | Data not available              |
| Relative density                      | 1.005g/cm <sup>3</sup>          |
| Solubility                            | soluble dans l'eau..            |
| Partition coefficient water/n-octanol | Data not available              |
| Auto-ignition temperature             | Data not available              |
| Decomposition temperature             | Data not available              |
| Viscosity                             | Data not available              |

## SECTION 10 - STABILITY AND REACTIVITY

|                                                                                           |                                                                                                                       |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Reactivity                                                                                | Non-reactive under normal conditions.                                                                                 |
| Chemical stability                                                                        | Stable under recommended storage conditions.                                                                          |
| Possibility of hazardous reactions                                                        | Stable under normal conditions.                                                                                       |
| Conditions of instability (Including sensitivity to shock / static discharge / vibration) | This product may decompose if exposed to heat. Do not heat above 240 ° C.                                             |
| Incompatible material                                                                     | Strong oxidizing agents.                                                                                              |
| Hazardous decomposition products                                                          | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ) - nitrogen oxides (NO <sub>x</sub> ). - Hydrogen chloride gas |

## SECTION 11 - TOXICOLOGICAL INFORMATION

### SAFRANINE O

|                                           |                                                                                                         |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Routes of exposure                        | Inhalation, skin and eyes.                                                                              |
| Acute exposition effects / symptoms:      | By exposure route below.                                                                                |
| - Eyes                                    | Irritation.                                                                                             |
| - Skin                                    | Irritation.                                                                                             |
| - Inhalation                              | To our knowledge, the product has not been fully studied.                                               |
| Acute toxicity (Ingestion)                | To our knowledge, the product has not been fully studied.                                               |
| Chronic exposure effects / symptoms       | To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. |
| DL50 (specify species and route of entry) | LD50 Oral - Data not available; LD50 Dermal - Data not available.                                       |
| CL50 (specify species and route of entry) | LC50 - Inhalation - Data not available.                                                                 |
| ETA (Estimated Acute Toxicity)            |                                                                                                         |

## SECTION 12 - ECOLOGICAL INFORMATION

|                                  |    |
|----------------------------------|----|
| Available ecological information | No |
|----------------------------------|----|

## SECTION 13 - DISPOSAL CONSIDERATIONS

|                        |                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste Disposal Method  | Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company. |
| Contaminated Packaging | Dispose of as unused product.                                                                                                                                |

## SECTION 14 - TRANSPORT INFORMATION

|                            |     |
|----------------------------|-----|
| UN Number                  | N/R |
| UN Proper shipping name    |     |
| Transport hazard class(es) |     |
| Packing group              |     |
| Limited quantity index     |     |
| ERAP Index                 |     |
| Special precautions        |     |

## SECTION 15 - REGULATORY INFORMATION

|              |                                                                   |
|--------------|-------------------------------------------------------------------|
| WHIMS CANADA | Serious eye damage/eye irritation - Serious eye damage category 1 |
|--------------|-------------------------------------------------------------------|

## SECTION 16 - OTHER INFORMATION

### Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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