

# **SAFETY DATA SHEET**

[Required under safety and health regulations for shipping and handling]

<u>Version:</u> 2021 <u>Date Updated:</u> July 16, 2021

## SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION------

| Product Name<br>Product Code(s)<br>Recommended Use | Safranin O<br>SB0815<br>For Laboratory Research Use Only<br>Not for Human or Animal Drug Use |
|--|--|
| Supplier<br>Address                                | Bio Basic Inc.<br>20 Konrad Crescent, Markham, Ontario,<br>Canada, L3R 8T4                   |
| Telephone  | (905) 474 4493   |
| Fax  | (905) 474 5794   |
| For Chemical Emergency Phone#                      | (416) 995 9730   |

## SECTION 2. ----- HAZARDS IDENTIFICATION -----

## GHS Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### GHS Label elements, including precautionary statements

Pictogram

| $\wedge$      |
|---------------|
| EI            |
| $\overline{}$ |
| $\mathbf{v}$  |

| Signal word   | Danger  |
|---|---|
| Hazard statement(s)<br>H318<br>Precautionary statement(s) | Causes serious eye damage.  |
| P280  | Wear eye protection/ face protection.   |
| P305 + P351 + P338 +                                      | IF IN EYES: Rinse cautiously with water for several minutes.  |
| P310  | Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. |

## Hazards not otherwise classified (HNOC) or not covered by GHS

- none

## SECTION 3. ---- COMPOSITION/INFORMATION ON INGREDIENTS -----

| Chemical Name | EC No.    | CAS-No   | Weight % |
|---------------|-----------|----------|----------|
| Safranin O    | 207-518-8 | 477-73-6 | <100     |

## SECTION 4. ------ FIRST-AID MEASURES------

## General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## 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 off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

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

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed No data available

#### SECTION 5. ----- FIRE FIGHTING MEASURES -----

#### Suitable extinguishing media

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

#### Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas Combustible.

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information** No data available

## SECTION 6. ----- ACCIDENTAL RELEASE MEASURES------

#### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### **Environmental precautions**

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### Reference to other sections

For disposal see section 13.

## SECTION 7. ----- HANDLING AND STORAGE------

#### Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

#### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): 11: Combustible Solids

QF26 Rev 2

#### Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

#### SECTION 8. ---- EXPOSURE CONTROLS/PERSONAL PROTECTION-----

#### **Exposure controls**

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses 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 of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **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 particle respirator type N100 (US) or type P3 (EN 143) 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).

#### Control of environmental exposure

Do not let product enter drains.

#### SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES ------

#### Information on basic physical and chemical properties

a) Appearance Form: solid

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| b)  | Odour  | odourless                          |
|-----|--|------------------------------------|
| c)  | Odour Threshold                                    | No data available                  |
| d)  | рН   | ca.10 at 10 g/l at 20 °C (68 °F)   |
| e)  | Melting<br>point/freezing point                    | No data available                  |
| f)  | Initial boiling point<br>and boiling range         | No data available                  |
| g)  | Flash point  | No data available                  |
| h)  | Evaporation rate                                   | No data available                  |
| i)  | Flammability (solid, gas)                          | No data available                  |
| j)  | Upper/lower<br>flammability or<br>explosive limits | No data available                  |
| k)  | Vapour pressure                                    | No data available                  |
| I)  | Vapour density                                     | No data available                  |
| m)  | Relative density                                   | No data available                  |
| n)  | Water solubility                                   | 50 g/l at 20 °C (68 °F)            |
| o)  | Partition coefficient: No                          | data available n-octanol/water     |
| p)  | Auto-ignition<br>temperature                       | No data available                  |
| q)  | Decomposition<br>temperature                       | No data available                  |
| r)  | Viscosity  | No data available                  |
| s)  | Explosive properties                               | No data available                  |
| t)  | Oxidizing properties                               | No data available                  |
| Oth | ner safety information                             |                                    |
|     | Solubility in other solvents                       | Ether at 20 °C (68 °F) - insoluble |
|     | 10STARII I   | TY AND REACTIVITY                  |
| -   |  |                                    |

## SECTIO

Reactivity No data available

**Chemical stability** Stable under recommended storage conditions.

## Possibility of hazardous reactions No data available

Conditions to avoid No data available

Incompatible materials No data available

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas Other decomposition products - No data available In the event of fire: see section 5

### SECTION 11. ----- TOXICOLOGICAL INFORMATION ------

#### Acute toxicity

#### Skin corrosion/irritation

#### Serious eye damage/eye irritation

#### Respiratory or skin sensitisation Germ cell

#### mutagenicity 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.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

#### **Reproductive toxicity**

**Specific target organ toxicity - single exposure** Acute inhalation toxicity - Possible damages:, mucosal irritations

## Specific target organ toxicity - repeated exposure

#### **Aspiration hazard**

#### **Additional Information**

RTECS: SG1623000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

The following applies to aromatic amines in general: systemic effect: methaemoglobinaemia with headache, cardiac dysrhythmia, drop in blood pressure, dyspnoea, and spasms, principal symptom: cyanosis (blue discolouration of the blood). Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 12. ----- ECOLOGICAL INFORMATION -----

Toxicity

#### Persistence and degradability

Bioaccumulative potential

Mobility in soil

## **Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### Other adverse effects

## SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

#### Product

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

#### Contaminated packaging

Dispose of as unused product.

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## SECTION 14. ----- TRANSPORT INFORMATION -----

## DOT (US)

Not dangerous goods

## IMDG

Not dangerous goods

## ΙΑΤΑ

Not dangerous goods

## SECTION 15. ----- REGULATORY INFORMATION -----

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

## SECTION 16. ----- OTHER INFORMATION-----

Further information: no limited for paper copy, just for internal uses. For research use only. Not intended for human or animal diagnostic or therapeutic uses.

## Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

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End of SDS



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## **CERTIFICATE OF ANALYSIS**

| Product<br>Grade                        | Safranin O Certified<br>Indicator                             |         |
|---|---|---------|
| Product Code                            | SB0815  |         |
| Formula                                 | $C_{20}H_{19}CIN_4$   |         |
| MW                                      | 350.84  |         |
| CAS#                                    | 477-73-6  |         |
| Lot No                                  |   |         |
|   |   |         |
|   |   |         |
| Test Items                              | Specifications  | Results |
| Test Items<br>Appearance                | Specifications Dark green crystalline powder                  | Results |
|   |   | Results |
| Appearance                              | Dark green crystalline powder                                 | Results |
| Appearance<br>Lambda max                | Dark green crystalline powder<br>530nm in 50% Ethanol         | Results |
| Appearance<br>Lambda max<br>Dye content | Dark green crystalline powder<br>530nm in 50% Ethanol<br>≥95% | Results |

Storage: R.T.