Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name Safranin O, Biological Stain, Histology Product SX0020

Code

Manufacturer EMD Chemicals Inc.

P.O. Box 70

Effective 3/3/2003

Date

480 Democrat Road Gibbstown, NJ 08027

Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of

EM Industries, Inc.

For More Information Call In Case of Emergency Call

856–423–6300 Technical Service 800–424–9300 CHEMTREC

Monday–Friday: 8:00 AM – 5:00 PM (USA)

613-996-6666 CANUTEC

(Canada)

24 Hours/Day: 7 Days/Week

Synonym BASIC RED2; C.I. #50240

Material Uses Analytical reagent.

Chemical Stain

Family

Section 2. Composition and Information on Ingredients

Component CAS # % by

Weight

SAFRANIN O 477–73–6 100

Section 3. Hazards Identification

Physical State and Solid. (Powdered solid.)

Appearance

Emergency CAUTION!

Overview MAY CAUSE EYE AND SKIN IRRITATION.

Routes of Entry Inhalation. Ingestion.

Potential Acute Health

Effects

Eyes May be hazardous in case of eye contact (irritant).

Skin May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation No known acute effects of this product resulting from inhalation.

Ingestion No known acute effects of this product resulting from ingestion.

Potential Chronic Health Effects

Carcinogenic This material is not known to cause cancer in animals or humans.

Effects

Additional information See Toxicological Information (section 11)

Medical Conditions Repeated or prolonged exposure is not known to aggravate medical

Aggravated by condition.

Overexposure:

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately

flush eyes with plenty of water for at least 15 minutes. Cold water may be

used. Get medical attention.

Skin Contact In case of contact, immediately flush skin with plenty of water. Cover the

irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean

shoes before reuse. Get medical attention.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Get medical attention.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Flammability of the Non-flammable.

Product

Auto-ignition Not applicable.

Temperature

Flash PointsNot applicable.Flammable LimitsNot applicable.Products ofNot available.

Combustion

Fire Hazards in Not applicable.

Presence of Various

Substances

Explosion Hazards Risks of explosion of the product in presence of static discharge: No.

in Presence of

Various Substances Risks of explosion of the product in presence of mechanical impact:

No.

Fire Fighting Media Not applicable.

and Instructions

Protective Clothing Not applicable.

(Fire)

Special Remarks on Not available.

Fire Hazards

Special Remarks on Not available.

Explosion Hazards

Section 6. Accidental Release Measures

Small Spill and Use appropriate tools to put the spilled solid in a convenient waste

Leak disposal container.

Large Spill and Use a shovel to put the material into a convenient waste disposal

Leak container. Finish cleaning by spreading water on the contaminated surface

and allow to evacuate through the sanitary system.

Spill Kit No specific spill kit required for this product.

Information

Section 7. Handling and Storage

Handling Avoid contact with eyes, skin and clothing. Wash thoroughly after

handling. Do not breathe dust. Do not ingest.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated

Section 8. Exposure Controls/Personal Protection

Engineering Use process enclosures, local exhaust ventilation, or other engineering **Controls** controls to keep airborne levels below recommended exposure limits. If

user operations generate dust, fume or mist, use ventilation to keep

exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyes Splash goggles. **Body** Lab coat.

Respiratory Dust respirator. Be sure to use an approved/certified respirator or

equivalent.

Hands Gloves.

Feet Not applicable.

Protective Clothing

(Pictograms)

Personal Protection Splash goggles. Full suit. Dust respirator. Boots. Gloves. A

in Case of a Large self-contained breathing apparatus should be used to avoid inhalation of

the product. Suggested protective clothing might not be sufficient; consult **Spill**

a specialist BEFORE handling this product.

Product Name Exposure Limits SAFRANIN O Not available.

Section 9. Physical and Chemical Properties

Odorless. Odor **Color** Red.

Physical State and Solid. (Powdered solid.)

Appearance

Molecular Weight 350.88 g/mole Molecular Formula C20H19N4.Cl pH Not available.

Boiling/Condensation Not available.

Point

Melting/Freezing Not available.

Point

Specific Gravity Not available. **Vapor Pressure** Not available. **Vapor Density** Not available. **Odor Threshold** Not available. **Evaporation Rate** Not available. LogKow Not available. **Solubility** Soluble in water.

Section 10. Stability and Reactivity

Stability and The product is stable.

Reactivity

Conditions of Not available.

Instability

Incompatibility with Not available.

Various Substances

Rem/Incompatibility Not available.

Hazardous These products are halogenated compounds.

Decomposition Products

Hazardous Will not occur.

Polymerization

Section 11. Toxicological Information

RTECS Number:

Safranin O, Biological Stain, SG1623000

Histology

Toxicity LD50: Not available.

LC50: Not available.

Chronic Effects on Not available.

Humans

Acute Effects on May be hazardous in case of eye contact (irritant). May be hazardous in

Humans case of skin contact (irritant). Skin inflammation is characterized by

itching, scaling, reddening, or, occasionally, blistering.

Synergetic Products Not available.

(Toxicologically)

Irritancy Draize Test: Not available.

Sensitization Not available.

Carcinogenic This material is not known to cause cancer in animals or humans.

Effects

Toxicity to Not available.

Reproductive System

Teratogenic Effects Not available.

Mutagenic Effects Not available.

Section 12. Ecological Information

Ecotoxicity Not available. **BOD5 and COD** Not available.

Toxicity of the Products of Biodegradation

ucts of

Section 13. Disposal Considerations

EPA Waste Not available.

Number

Treatment Material does not have an EPA Waste Number and is not a listed waste,

however consultation with a permitted waste disposal site (TSD) should be accomplished. ALWAYS CONTACT A PERMITTED WASTE DISPOSAL (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

The products of degradation are more toxic than the product itself.

Section 14. Transport Information

DOT Classification Not available. **TDG Classification** Not available.

IMO/IMDG

Not available.

Classification

ICAO/IATA Classification

Not available.

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 8(b) inventory: SAFRANIN O

SARA 302/304/311/312 extremely hazardous substances: No products

were found.

SARA 302/304 emergency planning and notification: No products were

found.

SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution – chemical inventory – hazard

identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products

were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were

found.

Clean air act (CAA) 112 regulated flammable substances: No products

were found.

Clean air act (CAA) 112 regulated toxic substances: No products were

found.

WHMIS (Canada) Not controlled under WHMIS (Canada).

CEPA DSL: SAFRANIN O

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required

information.

International Regulations

EINECS SAFRANIN O 207–518–8

DSCL (EEC) R36/38– Irritating to eyes and skin. **International** Australia (NICNAS): SAFRANIN O

Lists

Japan (MITI): SAFRANIN O

Korea (TCCL): SAFRANIN O

Philippines (RA6969): SAFRANIN O

China: No products were found.

State Regulations No products were found.

California prop. 65: No products were found.

Section 16. Other Information

National Fire 0 Fire Protection 20 Hazard

Association Health

(U.S.A.) Reactivity

Specific Hazard

Changed Since Last + Revision Notice to Reader

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