







Safety Data Sheet SAFRANIN 0

SDS no. XJ6WTVEW • Version 1.0 • Date of issue: 2023-06-20

SECTION 1: Identification

GHS Product identifier

Product name SAFRANIN 0

Recommended use of the chemical and restrictions on use

Stain for microscopy, microscopy indicator (pH 0.3-1.0), manufacture of dyes.

Supplier's details

Name ChemSupply Australia Pty Ltd

Address 38-50 Bedford Street

5013 Gillman South Australia

Australia

Telephone 08 8440 2000

email www.chemsupply.com

National contact

Name Australian Biostains Pty Ltd Address 24 - 28 Stratton Drive

3844 Traralgon VIC

Australia

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Serious eye damage/eye irritation, Cat. 1

GHS label elements, including precautionary statements

Pictograms



Signal word Danger

Hazard statement(s)

H318 Causes serious eye damage

Precautionary statement(s)

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/physcian

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 350.85

Components

| Component | Concentration |
|---|----------------------|
| Safranin 0 (CAS no.: 477-73-6; EC no.: 207-518-8) | 100 - 100 % (weight) |
| CLASSIFICATIONS: Serious eye damage/eye irritation, Cat. 1. HAZARDS: No data available. | |

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out

of dangerous area.

First Aid Facilities: Maintain eyewash fountain in work area.

If inhaled If inhaled, remove from contaminated area to fresh air immediately. Apply artificial

respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain

medical aid if cough or other symptoms appear.

In case of skin contact Immediately remove contaminated clothing and wash affected area with water for at

least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical

advice /attention depending on the severity.

In case of eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to

be held open. In all cases of eye contamination it is a sensible precaution to seek

medical advice.

If swallowed Rinse mouth thoroughly with water immediately, repeat until all traces of product have

been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Small fire: Use dry chemical, CO2, water spray or foam.

Large fire: Use water spray, fog or foam.

Specific hazards arising from the chemical

May librate toxic fumes in fire.

May burn but does not ignite readily. Runoff may pollute waterways.

Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Methods and materials for containment and cleaning up

Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

Storage Temperatures: Store at +5 to +30 °C.

Store away from oxidizing agents. Store in a cool, dry place. Keep container tightly closed and in a well-ventilated place.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.f the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

SDS no. XJ6WTVEW • Version 1.0 • Date of issue: 2023-06-20

Hand Protection: Normally not required but if in doubt ensure hand protection should complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Solid Physical state

Appearance Red brown crystals or dark green powder. Color

Red brown or dark green Odor Odourless.

Odor threshold No data available. Decomposes above 240 °C.

Melting point/freezing point

Boiling point or initial boiling point and boiling range No data available.

No data available. Flammability

No data available. Lower and upper explosion limit/flammability limit Flash point No data available. No data available. **Explosive properties** Auto-ignition temperature No data available.

No data available. Decomposition temperature No data available. Oxidizing properties ~10 (10 a/l, H20, 20 °C) На

Kinematic viscosity No data available. Solubility Solubility in Water: Soluble Solubility in Organic Solvents:

Insoluble in ether (20 °C)

No data available. Partition coefficient n-octanol/water (log value) No data available.

Vapor pressure Evaporation rate No data available. Density and/or relative density No data available.

No data available.

Particle characteristics

Relative vapor density

No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

p. 4 of 8

SDS no. XJ6WTVEW • Version 1.0 • Date of issue: 2023-06-20

Safety Data Sheet SAFRANIN 0

Chemical stability

Stable under ordinary conditions of use and storage.

Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatible materials

Strong oxidisers.

Hazardous decomposition products

Oxides of carbon and nitrogen. Hydrogen chloride gas may be librated in decomposition.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ingestion: May be harmful if swallowed. May cause gastrointestinal irritation with symptoms including nausea, vomiting and diarrhea.

Inhalation: May be harmful if inhaled. Irritating to respiratory system.

Skin corrosion/irritation

Irritating to skin. Symptoms include redness, itching and pain.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (STOT) - repeated exposure

No data available.

Aspiration hazard

No data available.

SDS no. XJ6WTVEW • Version 1.0 • Date of issue: 2023-06-20

Additional information

To the best of our knowledge the chemical, physical and toxicity of this substance has not been fully investigated.

Safranin 0: use LD50 intravenous 24020ug/kg (24.02mg/kg) BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD

LUNGS, THORAX, OR RESPIRATION: RESPIRATORY STIMULATION

LUNGS, THORAX, OR RESPIRATION: OTHER CHANGES Stanford Medical Bulletin. Vol. 9, Pg. 96, 1951.

Link to PubMed

mouse LDLo oral 1600mg/kg (1600mg/kg) Journal of Pharmaceutical Sciences. Vol. 69, Pg. 327, 1980.

Link to PubMed

rabbit LD50 intravenous 26940ug/kg (26.94mg/kg) BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD

LUNGS, THORAX, OR RESPIRATION: OTHER CHANGES

LUNGS, THORAX, OR RESPIRATION: RESPIRATORY STIMULATION Stanford Medical Bulletin. Vol. 9, Pg. 96, 1951.

Link to PubMed

rat LD50 intravenous 28740ug/kg (28.74mg/kg) BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD

LUNGS, THORAX, OR RESPIRATION: RESPIRATORY STIMULATION

LUNGS, THORAX, OR RESPIRATION: OTHER CHANGES Stanford Medical Bulletin. Vol. 9, Pg. 96, 1951.

Link to PubMed

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Endocrine disrupting properties

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Safety Data Sheet SAFRANIN 0

SDS no. XJ6WTVEW • Version 1.0 • Date of issue: 2023-06-20

Packaging disposal

No data available.

Waste treatment

No data available.

Sewage disposal

No data available.

Other disposal recommendations

No data available.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer

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Preparation information

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safety Data Sheet SAFRANIN 0

SDS no. XJ6WTVEW • Version 1.0 • Date of issue: 2023-06-20

Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019 Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au IATA, Dangerous Goods Regulations (DGR) IMO, International Maritime Dangerous Goods Code (IMDG)