

MATERIAL SAFETY DATA SHEET

Haematoxylin, Gill's No.2 (double strength stain)

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STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

Company: ProSciTech
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IDENTIFICATION SECTION

Product Name	Haematoxylin, Gill's No.2
Other Names	Gill's double strength haematoxylin stain, Gill's # 2 Haematoxylin Solution
Product Code	AG2-500
U.N. Number	None allocated
Dangerous Goods Class and Subsidiary Risk	None allocated
Hazchem Code	None allocated
Poison Schedule	None allocated
Use	Used in hospital and pathology laboratories for histopathological staining of tissue

Physical Description and Properties

Appearance	Purple liquid
Boiling Point/Melting Point	100°C / 0°C
Vapour Pressure	23hPa@20°C
Specific Gravity	1.02
Flash Point	
Flammability Limits	Not determined
Solubility in water	Soluble in all proportions

Other Properties

Ingredients

Chemical Name	CAS Number	Proportion
HAEMATOXYLIN (Below Cutoff)	517-28-2	0.5%
ALUMINIUM SULFATE (Below Cutoff)	16828-11-8	>3.5%
ACETIC ACID (Below Cutoff)	64-19-7	<4%
SODIUM IODATE	7681-55-2	~0.03%
ETHYLENE GLYCOL (Below Cutoff)	107-21-1	<10%
WATER and other non hazardous substances	Mixture	>85%

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HEALTH HAZARD INFORMATION

Health Effects:

Acute

Swallowed:	May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.
Eye:	May cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.
Skin:	May cause irritation to the skin, with effects including: Redness and itchiness.
Inhaled:	Mists from the product may cause irritation to the nose, throat and respiratory system with effects including: Cough, discomfort, difficulty breathing and shortness of breath.

Chronic: Prolonged or repeated skin contact may lead to dermatitis.

First Aid:

Swallowed:	If swallowed, DO NOT induce vomiting. Give 3 to 4 glasses of water to drink. Seek immediate medical assistance.
Eye:	If material is splashed into eyes, immediately, flush with plenty of water for 15 minutes, ensuring eye lids are held open. If irritation persists transport to hospital or doctor.
Skin:	If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists transport to hospital or doctor.
Inhaled:	Move victim to fresh air. Apply resuscitation if victim is not breathing.
First Aid Facilities:	Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor

Treat symptomatically. In case of poisoning, contact Poisons Information Centre
In Australia call Tel: 131126 In New Zealand Tel: 034747000

PRECAUTIONS FOR USE

Exposure Standards:

ACETIC ACID (Below Cutoff)
(Worksafe Australia)
[TWA]10 ppm 25 mg/m³
[STEL]15 ppm 37 mg/m³

References: H

(ACGIH)
[TWA]10 ppm 25 mg/m³
[STEL]15 ppm 37 mg/m³

SODIUM IODATE
No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC)

ETHYLENE GLYCOL (Below Cutoff)
(Worksafe Australia)
[TWA]60 mg/m³
[STEL]120 mg/m³

References: A

(ACGIH)
[STEL]100 (Ceiling)

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Engineering Controls:	Carcinogen Category: A4 Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.
Personal Protection:	GLOVES: Not normally required, however, if handling large quantities or if the skin is likely to be exposed to this product over prolonged periods, then the use of PVC or natural rubber is recommended. EYES: Chemical goggles or faceshield to protect eyes. RESPIRATORY PROTECTION: Avoid breathing of vapours/gases. Select and use respirators in accordance with AS/NZS 1715/1716. The use of a dust mask (disposable) or a half-face respirator with P1 filter is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.
Flammability:	This material is not a flammable or combustible liquid.

SAFE HANDLING INFORMATION

Storage and Transport:	Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents. Keep containers closed, when not using the product. Store in original packages as approved by manufacturer.
Spills and Disposal:	Material may be slippery when spilt. Walk cautiously. Ventilate area. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS. Bund area using sand or soil - to prevent run off into drains and waterways. Use absorbent (soil, sand, vermiculite or other inert material). Collect and seal in properly labelled containers for disposal.
Fire/Explosion Hazard:	If safe to do so, move undamaged containers from fire area. Hazardous Decomposition Products: Decomposes on heating emitting oxides of carbon. Fire Fighting Procedures: Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended. Extinguishing Media: Use extinguishing media suitable for surrounding fire situation.

OTHER INFORMATION

Incompatibilities (Materials to avoid)	Strong alkalis, acids and oxidizing agents.
Animal Toxicity Data:	

The information published in this Material Safety Data Sheet has been compiled from data in various technical publications. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.