Material Safety Data Sheet

According to 91/155/EC

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Giemsa Stain Solution Product Number : S0390 REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline. CAS-No. : 51811-82-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Gainland Chemical Company Factory Road Sandycroft Deeside Flintshire CH5 2QJ UNITED KINGDOM Telephone : +44 (0)1244 536326 Fax : +44 (0)1244 531254 E-mail address : gainland@btconnect.com

1.4 Emergency telephone number

Emergency Phone # : +44 (0)1244536326

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008: Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Specific target organ toxicity - single exposure (Category 1), H370 For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC F Highly flammable R11 T Toxic R23/24/25, R39/23/24/25 For the full text of the R-phrases mentioned in this Section, see Section 16. **2.2 Label elements** Labelling according Regulation (EC) No 1272/200

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word Danger

Material Safety Data Sheet

Hazard statement(s)	
H225	Highly flammable liquid and vapour.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H370	Causes damage to organs.
Precautionary statemer	nt(s)
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P311	Call a POISON CENTRE or doctor/ physician.

Supplemental Hazard Statements: none

According to European Directive 67/548/EEC as amended. Hazard symbol(s): F Highly flammable T Toxic

R-phrase(s)	Highly flammable.
R11	Toxic by inhalation, in contact with skin and if swallowed.
R23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if
R39/23/24/25	swallowed.
S-phrase(s)	Keep away from sources of ignition - No smoking.
S16	Wear suitable protective clothing and gloves.
S36/37	In case of accident or if you feel unwell, seek medical advice immediately (show label where
S45	possible).

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterization :	Natural product
Synonyms :	Azure eosin methylene blue
Giemsa solution	

Hazardous ingredients according to Regulation (EC) No 1272/2008 Methanol:

Component:	Classification	Concentration
CAS-No: 67-56-1	Flam. Liq. 2; Acute Tox. 3;	50 - 100%
EC-No: 200-659-6	STOT SE 1; H225, H301 + H311 + H331 + H370	
Index-No: 603-001-00-X		
Registration number: 01-2	2119433307-44-XXXX	
-		

Hazardous ingredients according to Directive 1999/45/ECMethanol:ConcentrationComponentClassificationCAS-No: 67-56-1F, T, R11 - R23/24/25 - R39/23/24/25EC-No. 200-659-650 - 100%Index-No: 603-001-00-XRegistration number: 01-2119433307-44-XXXX

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

Material Safety Data Sheet

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

Material Safety Data Sheet

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

A part from the uses mentioned in section 1.2, no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters:

Component	CAS-No.	Value	Control parameters	Basis
Methanol	67-56-1	STEL	250 ppm	UK. EH40 WEL - Workplace
			333 mg/m3	Exposure Limits
Notoo, Con ha aha	orbod through alde	The engine	l aubatanaaa ara thaaa far i	which there are concerne that dermal

Notes: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity

	TWA	200 ppm	UK. EH40 WEL - Workplace
		266 mg/m3	Exposure Limits
Notes: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal			
absorption will lead to systemic toxic	ity.		
	TWA	200 ppm	Europe. Indicative occupational

exposure limit values

260 mg/m3 Notes: Identifies the possibility of significant uptake through the skin indicative

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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. The selected protective gloves need to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.

Full contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 30 min

Material Safety Data Sheet

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, 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 respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Liquid Odour: Characteristic Colour: Purple blue in the mixture. Clear and colourless in its separate and pure form. Melting point/Melting range: -97.8 ° C Boiling point/Boiling range: 64.7 ° C Not determined Sublimation temperature / start: 11 ° C Flash point: Inflammability (solid, gaseous): Flammable. 385 ° C Ignition temperature: Decomposition temperature: Not determined Danger of explosion: Product is not explosive. However, formation of explosive air/steam mixtures is possible. Critical values for explosion: 6.7 Vol % Lower: Upper: 36 Vol % 129 hPa Steam pressure at 20 ° C: Density at 20 ° C: 0.79 g/cm3 Solubility in / Miscibility with water: Fully miscible

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Acids, Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available In the event of fire: see section 5

Material Safety Data Sheet

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity LDLO Oral - Human - 143 mg/kg (Methanol) Remarks: Lungs, Thorax, or Respiration:Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. LD50 Oral - rat - 1,187 - 2,769 mg/kg (Methanol) no data available (Methanol) LC50 Inhalation - rat - 4 h - 128.2 mg/l (Methanol) LC50 Inhalation - rat - 6 h - 87.6 mg/l (Methanol) LD50 Dermal - rabbit - 17,100 mg/kg (Methanol)

Skin corrosion/irritation Skin - rabbit Result: No skin irritation

Serious eye damage/eye irritation Eyes - rabbit (Methanol) Result: No eye irritation

Respiratory or skin sensitisation Maximisation Test - guinea pig (Methanol) Result: Does not cause skin sensitisation. (OECD Test Guideline 406)

Germ cell mutagenicity Ames test (Methanol) S. Typhimurium Result: negative

in vitro assay (Methanol) fibroblast Result: negative Mutation in mammalian somatic cells.

Mutation in mammalian somatic cells. Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) (Methanol) mouse - male and female Result: negative 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.

Reproductive toxicity Damage to fetus not classifiable (Methanol) Fertility classification not possible from current data. (Methanol)

Specific target organ toxicity - single exposure Causes damage to organs. (Methanol)

Specific target organ toxicity - repeated exposure The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard No aspiration toxicity classification (Methanol)

Additional Information RTECS: Not available Methyl alcohol may be fatal or cause blindness if swallowed. (Methanol) Effects due to ingestion may include:, Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. (Methanol) Symptoms may be delayed., Damage of the Liver, Kidney (Methanol)

Material Safety Data Sheet

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish: mortality LC50 - Lepomis macrochirus (Bluegill) - 15,400.0 mg/l - 96 h (Methanol) NOEC - Oryzias latipes - 7,900 mg/l - 200 h (Methanol)

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - > 10,000.00 mg/l - 48 h (Methanol)

Toxicity to algae: Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 22,000.0 mg/l - 96 h (Methanol)

12.2 Persistence and degradability

Biodegradability: Aerobic - Exposure time 5 d (Methanol) Result: 72 % - rapidly biodegradable

Biochemical OxygenDemand (BOD): 600 - 1,120 mg/g (Methanol)

Chemical OxygenDemand (COD): 1,420 mg/g (Methanol)

Theoretical oxygen demand: 1,500 mg/g (Methanol)

12.3 Bioaccumulative potential

Bioaccumulation: Cyprinus carpio (Carp) - 72 d at 20 °C - 5 mg/l (Methanol) Bioconcentration factor (BCF): 1.0

12.4 Mobility in soil

Will not adsorb on soil. (Methanol)

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Additional ecological information: Avoid release to the environment. Stability in water at 19 °C83 - 91 % - 72 h (Methanol) Remarks: Hydrolyses on contact with water.Hydrolyses readily.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal Company.

Contaminated packaging

Dispose of as unused product.

Material Safety Data Sheet

SECTION 14: Transport information

14.1 UN number

ADR/RID: 1992	IMDG: 1992	IATA: 1992	
14.2 UN proper shipping nameADR/RID:METHANOL, SOLUTIONIMDG:METHANOL, SOLUTIONIATA:Methanol, SOLUTION			
14.3 Transport haza ADR/RID: 3 (6.1)	<u>rd class(es)</u> IMDG: 3 (6.1)	IATA: 3 (6.1)	
14.4 Packaging grou		<i>iii</i> (1) (1 (0, (0, 1))	
ADR/RID: II	IMDG: II	IATA: II	
14.5 Environmental ADR/RID: no	h <u>azards</u> IMDG Marine pollut	ant: no IATA: no	
14.6 Special precautions for user No data available			
SECTION 15: Regulatory information			

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H311	Toxic in contact with skin.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.

Full text of R-phrases referred to under sections 2 and 3 F Highly flammable T Toxic

R11 Highly flammable.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials

or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However,

no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as

to the suitability of such information for his own particular use.