

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.10.2015

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SECTION 1: Identification of the substance/mixture and of the company/ undertaking · 1.1 Product identifier · Trade name: CFM-1 · Article number: AGR1330-10 · 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: A buffered aqueous-glycerol solution for use in fluorescence microscopy · Application of the substance / the preparation: No further relevant information. · 1.3 Details of the supplier of the safety data sheet · Supplier. Agar Scientific Elektron Technology UK Ltd Parsonage Lane Stansted CM24 8GF United Kingdom sales@agarscientific.com Tel: +44 (0) 1279 813 519 · Further information obtainable from: Technical Support • 1.4 Emergency telephone number: 24 hours: +44 (0)1856 407333 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS07 Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled. Eye Irrit. 2 H319 Causes serious eye irritation. Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xn; Harmful R20/21: Harmful by inhalation and in contact with skin. Xi; Irritant R36: Irritating to eyes. Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. · Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. · 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms (Contd. on page 2) GB

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· Signal word Wa	rning			
· Hazard-determir	ning components of labelling:			
pyridine 1-oxide				
Hazard statement	nts			
H312+H332 Harr	nful in contact with skin or if inhaled.			
H319 Cau	ses serious eye irritation.			
Precautionary statements				
P101	If medical advice is needed, have product container or label at hand.			
P102	Keep out of reach of children.			
P103	Read label before use.			
P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact			
	lenses, if present and easy to do. Continue rinsing.			
P322	Specific measures (see on this label).			
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position			
_	comfortable for breathing.			
P312	Call a POISON CENTER/doctor if you feel unwell.			
P363	Wash contaminated clothing before reuse.			
P501	Dispose of contents/container in accordance with local/regional/national/			
	international regulations.			
 2.3 Other hazard 				
· Results of PBT and vPvB assessment				
• PBT: Not applicable.				
· vPvB: Not applicable.				

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:				
CAS: 694-59-7	pyridine 1-oxide	30-60%		
EINECS: 211-774-6	🗙 Xn R20/21; 🗙 Xi R36			
	Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2, H319			
	glycerol	30-60%		
EINECS: 200-289-5	substance with a Community workplace exposure limit			
• Additional information: For the wording of the listed risk phrases refer to section 16.				

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

• After skin contact:

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin

immediately with soap and water. Get medical attention if any discomfort continues.

· After eye contact:

Check for contact lenses which must be removed from the eyes before rinsing. Promptly rinse eyes with plenty of clean water while lifting the eyelids. Continue to rinse for at least 15 minutes. Continue until the eyes are free of all traces of contamination. Get medical attention if any discomfort or irritation persists.

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- After swallowing: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: This product is not flammable. Use fire extinguishing media appropriate for surrounding materials
- For safety reasons unsuitable extinguishing agents: Do not use water jet as an extinguisher as this may spread the fire.
- 5.2 Special hazards arising from the substance or mixture During fire, toxic gases (CO, CO2, NOx) may be formed.
- 5.3 Advice for firefighters
- Protective equipment:

Wear self contained breathing apparatus and full protective clothing. Keep all unnecessary people away. fire water run-off must not be allowed to contaminate ground or enter drains, sewers or water courses. Provide bunding against fire water run-off.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Eye contact MUST be prevented by means of suitable personal protection equipment
- 6.2 Environmental precautions: Do not allow ANY environmental contamination
- 6.3 Methods and material for containment and cleaning up:

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Flushings must not be allowed to contaminate ground or enter drains, sewers or water courses.

- · 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Avoid spilling, skin and eye contact. Wash thoroughly after handling.

- · Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities Store in tightly closed container in a dry and cool place. Keep away from food, drink and animal feeding stuffs.
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

 Additional information about design of technical facilities: Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of vapours.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

56-81-5 glycerol

WEL Long-term value: 10 mg/m³

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

· Respiratory protection:

In case of inadequate ventilation of when the product is heated use suitable respiratory equipment with gas filter (type A2).

· Protection of hands:



Protective gloves

Wear suitable protective gloves conforming to EN 374. Seek recommendation from manufacturer or supplier. After using gloves the hands should be washed and dried thoroughly and a suitable moisturiser applied.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

Use approved safety goggles or face shield.

• Body protection: Wear appropriate clothing to prevent any possibility of skin contact.

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:
- Form:
- Colour: · Odour:

Liquid Colourless Odourless



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· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
 Vapour density 	Not determined.
 Evaporation rate 	Not determined.
· Solubility in / Miscibility with	
water:	Fully miscible.
· Partition coefficient (n-octanol/wa	ater): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
 9.2 Other information 	Refractive index 1.52 @20°C

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- 10.2 Chemical stability Stable under normal conditions of storage and use.
- \cdot Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: No further relevant information available.

• **10.6 Hazardous decomposition products:** Decomposition can lead to the formation of toxic gases or fumes, including carbon monoxide (CO), carbon dioxide (CO2) and nitrous gases (NOx).

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity
- · Skin corrosion/irritation
- May cause defatting of the skin, but is not an irritant. Not a skin sensitiser.
- \cdot Serious eye damage/irritation Irritating and may cause redness and pain.

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- \cdot Respiratory or skin sensitisation No sensitising effects known.
- · Other information (about experimental toxicology):

Inhalation: Not relevant at room temperatures. When heated, irritating vapours may be formed. Ingestion: May cause discomfort if swallowed.

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful Irritant

SECTION 12: Ecological information

· 12.1 Toxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability This product is expected to be biodegradable
- · 12.3 Bioaccumulative potential
- This product does not contain any substances expected to be bioaccumulating
- 12.4 Mobility in soil The product is completely water-soluble and may spread in water systems.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Product is hazardous waste. Do not allow into drains, sewers or water courses Disposal must be by means of a licensed waste contractor.

· Recommendation:

Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	Void	
 · 14.2 UN proper shipping name · ADR, IMDG, IATA 	Void	
 14.3 Transport hazard class(es) 		
· ADR, IMDG, IATA · Class	Void	
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· 14.4 Packing group · ADR, IMDG, IATA	Void	
 · 14.5 Environmental hazards: · Marine pollutant: 	No	
 14.6 Special precautions for user 	Not applicable.	
 14.7 Transport in bulk according to Ann of MARPOL73/78 and the IBC Code 	ex II Not applicable.	
· UN "Model Regulation":	-	

SECTION 15: Regulatory information

- \cdot 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H312 Harmful in contact with skin.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- R20/21 Harmful by inhalation and in contact with skin.
- R36 Irritating to eyes.

· Department issuing MSDS: Sales department

· Contact:

sales@agarscientific.com Tel: +44 (0) 1279 813 519

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

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