

Safety data sheet

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according to 1907/2006/EC, Article 31 Revision: 13.10.2015 SECTION 1: Identification of the substance/mixture and of the company/ undertaking · 1.1 Product identifier · Trade name: CFM-2 · Article number: AGR1331-10 1.2 Relevant identified uses of the substance or mixture and uses advised against 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 Eye Irrit. 2 H319 Causes serious eye irritation. Classification according to Directive 67/548/EEC or Directive 1999/45/EC 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 GHS07 · Signal word Warning · Hazard statements H319 Causes 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. (Contd. on page 2) GB



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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash thoroughly after handling.
P305+P351+P338	B IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P404	Store in a closed container.
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.
· 2.3 Other hazards	8

· 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:			
	pyridine 1-oxide	30-60%	
EINECS: 211-774-6	🗙 Xn R20/21; 🗙 Xi R36		
	Ocute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2, H319		
CAS: 56-81-5	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.			

or the wording

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· 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 eves with plenty of clean water while lifting the evelids. 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.

· 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 (Contd. on page 3)

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· 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
- 6.2 Environmental precautions: Do not allow ANY environmental cor
- 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.

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

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(Contd. of page 3) 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:	Liquid
Colour:	Colourless
· Odour:	Odourless
· Odour threshold:	Not determined.
· pH-value at 20 °C:	8-8.5
· 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.
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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/water): 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.
- · 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.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

No dangerous decomposition products known.

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.
- · Serious eye damage/irritation Irritating and may cause redness and pain
- 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: 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.

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- · 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.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

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		
 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 Annex II of MARPOL73/78 and the IBC Code Not applicable.			
· UN "Model Regulation":	-		

SECTION 15: Regulatory information

- · 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.

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• 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:

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- 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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