

Date Printed 16.02.2022

Version number 1

**Revision Date 16.02.2022** 

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

· 1.1 Product identifier

Trade name: AF4 Antifadent Solution

· Article number: AGR1327

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

A glycerol- based antioxidant 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 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



Skin Sens. 1 H317 May cause an allergic skin reaction.

- · 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-determining components of labelling:

propyl gallate

Hazard statements

H317 May cause an allergic skin reaction.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P362+P364 Take off contaminated clothing and wash it before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

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· **vPvB:** Not applicable.

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## **SECTION 3: Composition/information on ingredients**

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous compor	angerous components:					
CAS: 56-81-5 EINECS: 200-289-5		substance with a Community workplace exposure limit	95.0%			
CAS: 121-79-9 EINECS: 204-498-2	propyl gallate	① Acute Tox. 4, H302; Skin Sens. 1, H317	5.0%			

· Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation:

Supply fresh air.

No adverse effects are anticipated from inhalation.

If unconscious, place the patient on their side in the recovery position and ensure they are breathing. Clean nose and mouth with water. Artificial respiration may be administered by suitably qualified first-aiders. Get medical attention if any discomfort continues.

After skin contact:

Wash with water and soap and rinse thoroughly.

Remove affected person from source of contamination. Remove contaminated clothing and shoes. Wash the skin immediately with soap and water. Take especial care to clean folds, crevices, crease and groin. Get medical attention immediately.

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.

After swallowing:

If swallowed do NOT induce vomiting. Never give anything by mouth to an unconscious person. If person vomits, keep head low to prevent vomit entering the lungs. Rinse mouth thoroughly. Get medical attention if symptoms persist. Keep patient at rest

· 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:

Use fire extinguishing methods suitable to surrounding conditions.

Extinguish with alcohol-resistant foam, carbon dioxide, or dry powder.

· For safety reasons unsuitable extinguishing agents:

Do not use a water jet as this may spread the fire

5.2 Special hazards arising from the substance or mixture

If heated, vapours/gases hazardous to health (e.g. CO, NOx,) may be formed.

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# · 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

Wear protective gloves

**6.2 Environmental precautions:** 

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Prevent discharge into drains, water courses or onto the ground

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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. Do not contaminate 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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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 original container in a dry, cool and well-ventilated place.

- · 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: None.
- · 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Additional information about design of technical facilities:

Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of vapours.

· 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:

Remove all soiled and contaminated clothing

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Wash hands before breaks and at the end of work.

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 brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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: 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**

<ul> <li>9.1 Information on basic physical a</li> <li>General Information</li> <li>Appearance:</li> </ul>	and chemical properties
Form:	Liquid
Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
<ul> <li>Change in condition</li> <li>Melting point/freezing point:</li> <li>Initial boiling point and boiling ra</li> </ul>	18.2 °C ange: Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	400 °C
· Decomposition temperature:	Not determined.

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· Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure at 20 °C:	<0.1 hPa	
Density at 20 °C:	1.26 g/cm <sup>3</sup>	
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.	
· Solvent content:		
Organic solvents:	95.0 %	
VOC (EC)	0.00 %	
Solids content:	0.0 %	
· 9.2 Other information	No further relevant information available.	

# **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 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 Avoid exposure to heat in any form including sunlight
- · 10.5 Incompatible materials: Oxidising agents, strong acids.
- · 10.6 Hazardous decomposition products:

Decomposition can lead to vapours/gases hazardous to health (e.g. CO, NOx,) being formed.

### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Specific symptoms in biological assay:
- · Skin corrosion/irritation May cause skin sensitisation by skin contact
- · Serious eye damage/irritation May cause temporary irritation
- · Respiratory or skin sensitisation

May cause an allergic skin reaction.

Other information (about experimental toxicology):

Inhalation: In high concentrations or on heating, vapours may irritate the throat and respiaratory system causing coughing.

Ingestion: May cause discomfort if swallowed.

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- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

# **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

This product is completely water soluble and therefore may spread into water systems

- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · 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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Product is hazardous waste. Do not allow into drains, sewers or water courses. Disposal must be by means of a 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, ADN, IMDG, IATA Void

· 14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA Void

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· 14.3 Transport hazard class(es)		
· ADR, ADN, 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 An	nex II	
of Marpol and the IBC Code	Not applicable.	
· UN "Model Regulation":	Void	

# **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.
- · 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

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

- · Department issuing SDS: Sales department
- Contact:

sales@agarscientific.com

Tel: +44 (0) 1279 813 519

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Sens. 1: Skin sensitisation - Category 1