# GF Healthcare

# SAFETY DATA SHEET

**United States** 

Section 1. Identification

Product name

Amersham ECL Gel 10%, 10 wells, 10 pack

Catalogue Number 28-9898-04

Other means of identification Not available.

Product type Solid.

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

Identified uses

Use in laboratories

Industrial applications: Analytical chemistry. Research.

GE Healthcare UK Ltd GE Healthcare Bio-Sciences Supplier Amersham Place 800 Centennial Avenue

Little Chalfont P.O. Box 1327 Piscataway, NJ 08855-1327 Buckinghamshire HP7 9NA

+ 1 800 526 3593 England

+44 0870 606 1921

ChemTrec US (available 24/7) In case of emergency 1-800-424-9300

Section 2. Hazards identification

**OSHA/HCS** status While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the

product. This MSDS should be retained and available for employees and other users of this product.

Classification of the substance or

mixture

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 2.5%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.

**GHS label elements** 

Signal word No signal word.

No known significant effects or critical hazards. Hazard statements

**Precautionary statements** 

Prevention Not applicable. Response Not applicable. Storage Not applicable. Disposal Not applicable. Hazards not otherwise classified None known.

Section 3. Composition/information on ingredients

Substance/mixture Mixture Other means of identification Not available.

CAS number/other identifiers

CAS number Not applicable. Product code 28-9898-04

Ingredient name CAS number % 77-86-1 trometamol <2.5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.



28989804 Page: 1/7

Validation date 9 November 2015

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

# Description of necessary first aid measures

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for Eve contact

and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention

if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical

attention if symptoms occur.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for Ingestion

breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Skin contact

Eye contact No known significant effects or critical hazards.

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

Skin contact No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eve contact No specific data. Inhalation No specific data. Skin contact No specific data. No specific data. Ingestion

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person

may need to be kept under medical surveillance for 48 hours.

Specific treatments No specific treatment.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

# **Extinguishing media**

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known

Specific hazards arising from the

chemical

No specific fire or explosion hazard.

Hazardous thermal Decomposition products may include the following materials:

decomposition products carbon dioxide

carbon monoxide nitrogen oxides

Special protective actions for fire-

fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

action shall be taken involving any personal risk or without suitable training.

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled

material. Put on appropriate personal protective equipment.

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on For emergency responders

suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform **Environmental precautions** 

the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up



28989804 Page: 2/7 Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste

container. Dispose of via a licensed waste disposal contractor.

Large spill Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas.

Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section

13 for waste disposal.

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for

additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities Store between the following temperatures: 4 to 8°C (39.2 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Appropriate engineering controls Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable

# **Individual protection measures**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times

when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and

the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task

being performed and the risks involved and should be approved by a specialist before handling this

Respiratory protection

Other skin protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

#### **Appearance**

Physical state Solid. Color Clear Odor **Odorless** Not applicable Odor threshold Not applicable. pН Not available. Melting point Decomposes **Boiling point** Not applicable. Flash point Not available **Burning time Burning rate** Not available **Evaporation rate** Not available Flammability (solid, gas) Not available.



28989804 Page: 3/7 Lower and upper explosive

(flammable) limits

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

**Solubility** Partially soluble in the following materials: acetone.

Not available

Insoluble in the following materials: cold water and hot water.

Solubility in water Not available.

Partition coefficient: n-octanol/ Not available.

water

Auto-ignition temperatureNot available.Decomposition temperatureNot available.SADTNot available.ViscosityNot available.

# Section 10. Stability and reactivity

**Reactivity** No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** The product is stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

Incompatible materials No specific data.

Hazardous decomposition Under normal conditions of storage and use, hazardous decomposition products should not be produced.

products

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

# Carcinogenicity

Not available.

# Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Not available.

# Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes of Routes of entry anticipated: Oral, Dermal, Inhalation.

exposure

#### Potential acute health effects

**Eye contact** No known significant effects or critical hazards.

**Inhalation** Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

Skin contactNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contactNo specific data.InhalationNo specific data.



9 5 2 8 9 8 9 8 0 4

Number: 28989804 Page: 4/7

Skin contactNo specific data.IngestionNo specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects Not available.
Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.
Potential delayed effects Not available.

Potential chronic health effects

Not available

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Numerical measures of toxicity

**Acute toxicity estimates** 

Not available.

# Section 12. Ecological information

**Toxicity** 

Not available.

Persistence and degradability

Product/ingredient name Aquatic half-life Photolysis Biodegradability

trometamol - - Readily

**Bioaccumulative potential** 

Not available.

Mobility in soil

Soil/water partition coefficient (Koc) Not available.

Other adverse effects No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods**The generation of waste should be avoided or minimized wherever possible. Disposal of this product,

solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers.

# Section 14. Transport information

Product is not regulated as dangerous goods for transport.

Section 15. Regulatory information

U.S. Federal regulations TSCA 8(a) CDR Exempt/Partial exemption: Not determined

**United States inventory (TSCA 8b)**: All components are listed or exempted.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I Substances

Clean Air Act Section 602 Class II Substances

Not listed

DEA List I Chemicals (Precursor Chemicals)

Not listed

DEA List II Chemicals (Essential Chemicals)

Not listed

SARA 302/304

Composition/information on ingredients

SARA 302 TPQ SARA 304 RQ





Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
acrylamide	<0.1	Yes.	1000 / 10000	-	5000	-
sodium azide	0.02	Yes.	500	-	1000	-
SARA 304 RQ	5000000 lbs / 2270000 kg					

SARA 311/312

Classification Not applicable.

Composition/information on ingredients

ı	Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
t	trometamol	<2.5	No.	No.	No.	Yes.	No.

State regulations

Massachusetts None of the components are listed. **New York** None of the components are listed. **New Jersev** None of the components are listed. Pennsylvania None of the components are listed.

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
acrylamide	Yes.	Yes.	0.0002 µg/day (ingestion)	Yes.

International regulations

Canada inventory All components are listed or exempted.

International lists Australia inventory (AICS): All components are listed or exempted.

> China inventory (IECSC): All components are listed or exempted. Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

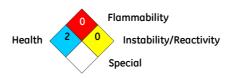
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

**Philippines inventory (PICCS)**: All components are listed or exempted.

Taiwan inventory (CSNN): Not determined. Chemical Weapons Convention List Schedule I Chemicals Chemical Weapons Convention List Schedule II Chemicals Not listed Not listed Chemical Weapons Convention List Schedule III Chemicals

# Section 16. Other information

### National Fire Protection Association (U.S.A.)



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# <u>History</u>

Date of printing 11/9/2015. 11/9/2015. Date of issue/Date of revision Date of previous issue 6/14/2011. Version 2

Key to abbreviations ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by

the Protocol of 1978. ("Marpol" = marine pollution)





28989804 Page: 6/7 References

UN = United Nations

Not available.

▼ Indicates information that has changed from previously issued version.

# Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



9 5 2 8 9 8 9 8 0 4

28989804

Article Number :

Page: 7/7