

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

1.1 Product identifiers

Product name : AquiGest
Product number : ATS05
Brand : Meridian Biotechnologies Ltd
REACH NO. : A registration number is not available for this mixture. All the substances used within the mixture are either; Pre-REACH registered, fully REACH Registered, exempt from registration or the annual tonnage does not require registration.

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

Sector of Use : SU24 Scientific research and development
Application of the substance / the mixture : Liquid Scintillation Cocktail

1.3 Details of the supplier of the safety data sheet

Company : Meridian Biotechnologies Ltd, Unit 6,
Epsom Downs Metro Centre,
Waterfield, Tadworth, Surrey KT20 5LR
United Kingdom
Telephone : +44 (0) 20 8397 8316
Fax : +44 (0) 20 8391 1373
E-mail address : info@meridian-biotech.com
Further information obtainable from : Product Safety Department

1.4 Emergency telephone numbers:

During normal opening times: +44 (0) 20 8397 8316
After hours: +44 (0) 7971000273

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Corrosion	Category 1	H314
Serious Eye Irritation	Category 1	H318
Acute Toxicity (inhalation)	Category 4	H332

For the full text of the H-Statements mentioned here - see section 16

2.2 Label elements

Classification according to Regulation (EC) No 1272/2008

Hazard
pictograms



GHS05

Signal word

Danger

Hazard statements

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage
H332	Harmful if inhaled

Cont...

Version 6.2 Revision Date 01/09/17
 According to CLP Regulation (EC) No. 1272/2008

Page 2 of 7

Precautionary statements

P260	Do not breathe dust/fume/gas/mist /vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P501	Dispose of contents / container in accordance with local/national regulations.

2.3 Other hazards

None known

SECTION 3: Composition / Information on Ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Hazardous components:

Sodium hydroxide				
CAS #: 215-185-5	Skin Irritation	Category 1	H314	1-3%
EC NUMBER: 1310-73-2	Eye Irritation	Category 1	H318	
REACH: 01-2119457892-27-0000				
Alcohols, C11-15 secondary, ethoxylated				
CAS #: 68131-40-8	Eye damage	Category 1	H318	5-10%
EC NUMBER: polymer	Acute Toxicity (inhalation)	Category 4	H332	
REACH: exempt				
Cocoamine oxide				
CAS #: 61788-90-8	Eye Irritation	Category 2	H319	1-3%
EC NUMBER: 263-016-9				
REACH: pre registered				

For the full text of the H-Statements mentioned here - see section 16

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General information:

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

If inhaled:

Move person into fresh air.

In case of contact with skin contact:

Wash off with plenty of water.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Protect unharmed eye.

If swallowed:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Call for a doctor immediately.

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: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing agents: **Carbon Dioxide**, dry powder or water spray.
Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for fire-fighters

Special Protective equipment: Wear self-contained respiratory protective device.
Wear fully protective suit.

Further Information: Cool closed containers exposed to fire with water spray. Contaminated water must not be discharged into drains.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Keep unprotected persons away.
Special precautions: Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions

Environmental precautions: Inform respective authorities in case of seepage into water course.
Do not allow to enter surface or ground water.
Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent
Ensure adequate ventilation.
Pick up mechanically
Dispose in according to local regulations (see section 13).

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

Advice on safe handling: Wear personal protective equipment.
Avoid contact with skin and eyes.
Avoid inhalation of vapour or mist.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Information about fire and explosion protection: Keep away from sources of ignition.
Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

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.
Protect from exposure to the light.

7.3 Specific end use(s):

Advised temperature of use: 20-25 °C

SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters

Components with workplace control parameters:

	CAS Number	Exposure	Control Parameter
Sodium hydroxide	215-185-5	TWA	2 mg/m ³

8.2 Exposure controls

General protective and hygienic measures: Handle in accordance with good industrial hygiene and safety practice.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Avoid inhalation of vapour or mist.
Do not eat, drink, smoke or sniff while working.
Wear suitable gloves, body and eye protection and a face shield.

Personal Protective Equipment:

Respiratory protection:

Skin protection:

No personal respiratory protective equipment normally required.
Handle with protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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 have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Splash contact

Material: Nitrile-rubber
Minimum layer thickness: 0.4 mm
Break through time: 240 min
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(Us) or EN 166(EU).

Eye / face protection:

Body protection:

Protective work clothing – complete suit protecting against chemicals. The type of protective clothing must be selected according to the concentration and amount of the dangerous substance at the specified workplace.

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

Physical state:	Liquid
Form:	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	>12
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	168°C
Flash point:	49°C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not determined.
Self-igniting:	Product is not self igniting
Danger of explosion:	Product does not present an explosion hazard
Vapour pressure:	Not determined
Density at 20 °C:	1.02 gm/cm ³
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 No further relevant information available.

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 decomposition if used according to specifications. Reacts with strong oxidising agents and flammable substances.
10.4 Conditions to avoid	Toxic fumes may be released if heated above decomposition point.
10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous decomposition products:	Toxic fumes of sodium oxide, sodium peroxide and nitrogen oxides.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Component	CAS Number	Values
Sodium hydroxide	215-185-5	LD50 dermal: 1350 mg / kg (rabbit)
Alcohols, c11-15 secondary, ethoxylated	68131-40-8	LC50 inhalation : 1.06mg/ m3/ 4 hour (rat) LD50 oral: 412 mg/kg (rat) LD50 dermal: 14000 mg / kg (rat)

Acute toxicity:
Skin corrosion / irritation: Causes skin irritation.
Serious eye damage / eye irritation: Causes serious eye damage.

Cont...

Version 6.2 Revision Date 01/09/17
 According to CLP Regulation (EC) No. 1272/2008

Page 6 of 7

Respiratory sensitisation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific Target Organ Toxicity – Single Exposure: Specific Target Organ Toxicity – Repeated Exposure: Aspiration hazard: Additional information:	May cause respiratory irritation. Based on available data, classification criteria not met. Based on available data, classification criteria not met. Based on available data, classification criteria not met. Respiratory irritation. Based on available data, classification criteria not met. Based on available data, classification criteria not met. The toxicological properties have not been fully investigated.
--	---

SECTION 12: Ecological Information

12.1 Toxicity

Aquatic toxicity:

Component	CAS NUMBER	LC50
Sodium hydroxide	215-185-5	45.4 mg/l/ 96 hour freshwater fish
Alcohols, c11-15 secondary, ethoxylated	68131-40-8	3.2 - 3.6 mg/l/ 96 hour Pimephales promelas (fathead minnow)

12.2 Persistence and degradability:	Not Biodegradable
12.3 Bio accumulative potential:	No further relevant information available.
12.4 Mobility in soil:	No further relevant information available.
12.5 Results of PBT and vPvB Assessment:	PBT: Not applicable. vPvB: Not applicable
12.6 Other adverse effects	
Additional ecological information:	
General notes:	Cannot be disposed of into sewage system.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product:	Must not be disposed together with household garbage.
Uncleaned Packaging:	Disposal must be made according to official regulations.

SECTION 14: Transport Information

14.1 UN-Number ADR, IMDG, IATA	3266
14.2 UN proper shipping name - ADR,IMDG, IATA	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S (SODIUM HYDROXIDE)
14.3 Transport hazard class(es) ADR, IMDG, IATA	8
14.4 Packing group - ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	No

Cont...

Version 6.2 Revision Date 01/09/17
According to CLP Regulation (EC) No. 1272/2008

Page 7 of 7

14.6 Special precautions for user

Danger code (Kemler) 80
EMS NUMBER: 8-15

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code UN "Model Regulation":

Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging 30ml
Maximum net quantity per inner packaging 1000ml
Transport category II
Tunnel restriction code D/E
UN MODEL REGULATION: UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S (SODIUM HYDROXIDE), 8, II

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further information available.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

Section 16: Other Information

Hazard statements

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled

Precautionary statements

P260	Do not breathe dust/fume/gas/mist /vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P501	Dispose of contents / container in accordance with local/national regulations.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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

CAS: Chemical Abstracts Service (division of the American Chemical Society)