

**Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product Identifier**

Product Name: **PROBE**  
Product code: ADJ-001

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

Product Use: Adjuvant

**1.3 Details of the supplier of the safety data sheet**

Company: Life Scientific Ltd,  
Block 4,  
Belfield Office Park,  
Beech Hill Road,  
Dublin 4,  
Ireland  
Telephone: +353 (0) 1 2832024  
Email: [info@lifescientific.com](mailto:info@lifescientific.com)  
Web: [www.lifescientific.com](http://www.lifescientific.com)

**1.4 Emergency contact information**

In case of Emergency: Tel. NHS 111

**1.5 UFI code**

CP80-003M-2001-N9ST

**Section 2. HAZARD IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EU) 1272/2008

Skin irritation:	Category 2	H315
Eye irritation:	Category 2	H319
Chronic aquatic toxicity:	Category 3	H412

**2.2 Label Elements**

Classification according to Regulation (EU) 1272/2008

Hazard pictograms



Signal Word:

Warning

**Hazard statements:**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary Phrases:**

P102 Keep out of reach of children  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P264 Wash hands thoroughly after handling.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

SP1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).  
EUH401 To avoid risks to human health and environment comply with the instructions for use.  
EUH208 Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

**2.3 Other Hazards**

**Hazardous components which must be listed on the label:**

Alkylethersulfate, sodium salt.

**Section 3. COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Substances**

None

**3.2 Mixtures**

Chemical Name	CAS / EC	Classification (Regulation (EC) No 1272/2008)	Concentration (%)
Alkylethersulfate, Sodium Salt	68891-38-3 500-234-8	Eye Irrit. 2, H318 Skin Irrit. 2, H315 Aquatic Chronic 3, H412	25-30
1,2-Benzisothiazol-3(2H)-one	2634-33-5 220-120-9	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	<0.05

Further information

1,2-Benzisothiazol-3(2H)-one	2634-33-5	M-Factor:1 (acute)
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For the full text of the H-Statements mentioned in this Section, see Section 16.

**Section 4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

General information: In the event of any complaints or symptoms, avoid further exposure. Treat symptomatically. If unwell, consult a physician showing the product container, label or this safety data sheet. Remove contaminated clothing immediately and dispose of safely.

Inhalation:	If inhaled, remove victim to fresh air. Consult a physician or Poison Control Centre immediately.
Ingestion:	DO NOT induce vomiting unless directed to do so by a Poison Control Centre/Physician.
Skin contact:	Wash skin immediately with plenty of water. If skin irritation persists, consult a physician.
Eye contact:	Remove contact lenses if present. Rinse immediately with plenty of water, with the eyelid open for at least 15 minutes. Get medical attention if irritation develops and persists.

**4.2 Most important symptoms and effects, both acute and delayed**

None

**4.3 Indication of any immediate medical attention and special treatment needed**

Notes to physicians: No specific antidote. Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

**Section 5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

For small fires: Use water spray, dry chemical, alcohol-resistant foam or carbon dioxide.  
For large fires: Use alcohol-resistant foam or water spray. Avoid using a solid water stream as it may cause the fire to scatter or spread.

**5.2 Special hazards arising from the substance or mixture**

Fire may produce carbon monoxide (CO), sulphur oxides. Exposure to products of combustion may be a health hazard. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus with full face shield. Fight fire from a safe distance and a protected location.

**Section 6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use appropriate personal protective equipment (see section 8). For safe handling and storage, (see section 7).

**6.2 Environmental precautions**

Prevent further leaking or spillage if safe to do so. Prevent entry into sewers and public waters. In the event of a major spillage, contact an expert immediately. Notify appropriate authorities if the product enters sewers or public waters. Make provisions to collect extinguishing water after fires. If the product contaminates rivers and lakes or drains, inform respective authorities

**6.3 Methods and materials for containment and cleaning up**

Contain spillage. Use non-combustible absorbent material to absorb spillage and place in container for disposal according to local/national legislation.

**6.4 Reference to other sections**

See Section 7 for information on handling and storage and Section 8 for information on PPE

**Section 7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**7.2 Conditions for safe storage, including any incompatibilities**

No special storage conditions required. Keep containers tightly closed in a cool, dry and well-ventilated area. Protect from freezing. Keep out of reach of children. Keep separate from food, drink and animal feed.

**7.3 Specific end use(s)**

See label.

**Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION**

**8.1 Control parameters**

None Established

**8.2 Exposure controls**

Respiratory protection: Protection provided by air-purifying respirators is limited. A combination gas, vapour and particulate respirator may be necessary until effective technical measures are introduced. Use self-contained breathing apparatus in case of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

Skin protection: Wear suitable chemical-resistant clothing based on the potential for skin contact.

Hand protection: Use nitrile rubber or other suitable chemical-resistant gloves. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. Gloves should be changed if breakthrough suspected.

Eye protection: Eye protection is not usually required. Follow any site-specific eye protection policies. Eye/face protection should be certified to EN 166.

Engineering measures: Good general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations to maintain airborne levels below exposure limit requirements or guidance.

Hygiene measures: When using, DO NOT eat, drink or smoke. Wash hands and face with soap and water before breaks. Shower at the end of the workday. Decontaminate protective clothing before re-use.

**Section 9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

**Appearance**

Form:	Liquid, slightly turbid
Colour:	Colourless
Odour:	Slightly acidic

**Chemical properties**

pH (at 23 °C):	4.0 – 7.0 at 100%
Boiling point (°C):	100
Melting point (°C):	Not applicable
Oxidising properties:	No test data available
Explosive properties:	No test data available
Density at 20 °C (g/cm <sup>3</sup> ):	1.03
Flash point (°C):	> 100 - Determination conducted up to the boiling point.
Solubility in water:	Miscible
Log P octanol/water at 20°C:	No data available
Surface tension at 25 °C	25.4 mN/m

**9.2 Other Information**

None

**Section 10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

None under normal conditions

**10.2 Chemical Stability**

Stable under normal storage conditions.

**10.3 Possibility of hazardous reactions**

None known.

**10.4 Conditions to avoid**

Heat, freezing, direct sunlight

**10.5 Incompatible material**

Store in original container only

**10.6 Hazardous decomposition products**

None expected under normal conditions of use during decomposition.

**Section 11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

Acute oral toxicity	ATE (mix) >2000 mg/kg.
Acute inhalation toxicity	No respirable aerosol formed during applications.
Acute dermal toxicity	ATE (mix) > 2000 mg/kg.
Eye irritation rabbit	Irritating to eyes.
Skin irritation rabbit	Irritating to skin.
Sensitisation guinea pig	Non Sensitising (OECD test guideline 406, magnusson & kligman test)
Long-term toxicity	No evidence of carcinogenic, development toxicity or mutagenic effects in animal/ invitro and in vivo tests. experiments.

**Section 12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

LC <sub>50</sub> Danio rerio (Zebra fish) (96 h):	7.1 mg/L
EC <sub>50</sub> Daphnia magna (48 h):	7.2 mg/L
NOEC Desmodesmus subspicatus (72 h):	0.93 mg/L
EC50 Desmodesmus subspicatus (72 h):	27 mg/L

**12.2 Persistence and degradability**

Alkylethersulfate, sodium salt is rapidly biodegradable

**12.3 Bioaccumulative potential**

Alkylethersulfate, sodium salt has low potential for bioaccumulation.

**12.4 Mobility in soil**

Alkylethersulfate, sodium salt is soluble in water.

**12.5 Results of PBT and vPvB assessment**

This substance is not considered to be persistent, bioaccumulating or toxic (PBT), nor is it considered very persistent or very bioaccumulating (vPvB)

**12.6 Other adverse effects**

None

**Section 13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Waste disposal procedures:** Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Dispose of in compliance with local regulations. Follow current local regulations.

**Contaminated packaging:** Empty remaining contents. Triple rinse containers. Do not re-use empty containers. Empty containers should be disposed of in compliance with local regulations.

**Section 14. TRANSPORT INFORMATION**

Transport in compliance with provisions of the ADR for road, RID for rail, IMDG for sea. This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**14.1 UN Number**

Not Applicable

**14.2 UN proper shipping name**

Not Applicable

**14.3 Transport hazard class(es)**

Not Applicable

**14.4 Packing group**

Not Applicable

**14.5 Environmental hazards**

Not Applicable

**14.6 Special precautions for user**

See sections 6 to 8.

**14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code**

Not Applicable

**Section 15. REGULATORY INFORMATION**

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

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

**Transport**

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348).  
Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367)  
Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

**Supply and Use**

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)  
Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009  
Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)  
EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits  
Control of Pesticide Regulations 1986  
Dangerous Substances and Explosive Atmospheres Regulations 2002

**Waste Treatment**

Environmental Protection Act 1990, Part II  
Environmental Protection (Duty of Care) Regulations 1991  
The Waste Management Licensing Regulations 1994 (as amended)  
Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended)  
Landfill Directive  
Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)  
Water Resources Act 1991  
Anti-Pollution Works Regulations 1999

**Further information**

WHO-classification: III (Slightly hazardous)

**15.2 Chemical safety assessment**

None

**Section 16. OTHER INFORMATION**

**Text of the hazard statements mentioned in Section 3**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

DISCLAIMER: The information presented in this document is accurate to the best of our knowledge at the date of its publication. However, the information given is designed only as a guide for the methods of handling, storage, use, transportation and disposal of the product and is not considered a warranty or quality specification. Life Scientific Limited cannot be held responsible for any loss or damage resulting from the handling, storage, use or disposal of the product. The information contained in this document relates only to this specific product.

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