

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

**1.1 Product Identifier**

Product Name: **SUMIR®**  
Product Code: 009-01  
UFI Code : RRH1-88RA-F00H-W1AD

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

Product Use: Herbicide

**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

**Section 2. HAZARD IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EU) No. 1272/2008**

Aquatic Acute	Category 1	H400
Aquatic Chronic	Category 1	H410

**2.2 Label Elements**

**Labelling according to Regulation (EU) 1272/2008**

Hazard Pictograms:



Signal Word:

Warning

Hazard Phrases:

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Phrases:**

P102 Keep out of reach of children.  
P391 Collect spillage  
P501 Dispose of content/container in compliance with local and national regulations.

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

SP 1 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).

**2.3 Other Hazards**

Substance does/does not meet the criteria for vPvB according to regulation (EC) No 1907/2006, Annex III.

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

**3.1 Substances**

No substances fulfil the criteria set out in Annex II, Part A of the REACH Regulation (EC) No 1907/2006.

**3.2 Mixtures**

Chemical Name	CAS No	EC No	Classification (Regulation (EC) No 1272/2008)	Concentration (% w/w)
Florasulam	145701-23-1	-	Aquatic Acute1; H400 Aquatic Chronic1; H410	0-5
Propylene glycol	57-55-6	200-338-0	Not classified	<10

**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.

Inhalation: If inhaled, remove victim to fresh air. If breathing is difficult, give oxygen. If breathing is irregular or stopped, give artificial respiration, if by mouth to mouth use rescuer protection (pocket mask etc). Consult a physician or Poison Control Centre immediately.

Ingestion: DO NOT induce vomiting unless directed to do so by a Poison Control Centre. Never give anything by mouth to an unconscious person. Seek medical advice immediately and show the product container, label or data sheet if possible.

Skin contact: Remove contaminated clothing immediately. Wash skin immediately with plenty of water. If skin irritation persists, consult a physician. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water, with the eyelid open for at least 15 minutes, removing contact lenses (if present) after the first 5 minutes. Obtain immediate medical attention.

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

No known symptoms. Treat symptomatically.

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

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

**Section 5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

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**

Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include trace amounts of: Sulfur oxides. Nitrogen oxides. Hydrogen halides.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus with full face shield. Fight fire from a safe distance and a protected location. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

**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**

Keep out of reach of children. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

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

Store in a dry place. Store in original container. Keep container tightly closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies.

**7.3 Specific end use(s)**

Refer to product label.

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

**8.1 Control parameters**

Component	Exposure Limits	Category	Source
Propylene glycol	10 mg/m <sup>3</sup>	TWA (Particulate)	WEL (UK)

**8.2 Exposure controls**

Respiratory protection:	Use self-contained breathing apparatus in case of emergency spills.
Skin protection:	Wear suitable chemical-resistant clothing based on the potential for skin contact.
Hand protection:	Use nitrile or other suitable chemical-resistant gloves. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure.
Eye protection:	Eye protection is not usually required. Follow any site-specific eye protection policies.
Engineering measures:	Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

**Section 9. PHYSICAL AND CHEMICAL PROPERTIES**

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

**Appearance**

Physical State:	Liquid
Form:	Liquid
Color:	White to off-white
Odor:	Mild

**Chemical Properties**

pH (1%):	4.0 – 5.0
Density (g/cm <sup>3</sup> at 20 °C):	1.03
Solubility in water:	Soluble
Solubility in other solvents:	No data available
Coefficient: n-octanol/water:	No data available
Explosive properties:	Not explosive
Oxidizing Properties:	Not oxidising

**9.2 Other Information**

None.

**Section 10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical Stability**

Thermally stable at typical use temperatures.

**10.3 Possibility of hazardous reactions**

Polymerization will not occur.

**10.4 Conditions to avoid**

Avoid: Extreme Heat (Active ingredient decomposes at elevated temperatures)

**10.5 Incompatible material**

Strong basic, acidic or oxidising agents.

**10.6 Hazardous decomposition products**

Decomposition products depend upon temperature, air supply and the presence of other materials

**Section 11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

LD <sub>50</sub> oral rat	>5000 mg/kg
LD <sub>50</sub> percutaneous rat	>2000 mg/kg.
LC <sub>50</sub> inhalation rat	> 5 mg/L/4 h.
Eye irritation rabbit	Non irritant.
Skin irritation rabbit	Non irritant.
Sensitisation guinea pig	Not sensitising.
Mutagenicity:	No evidence in animal experiments.
Carcinogenicity:	No evidence in animal experiments.
Developmental Toxicity:	No evidence in animal experiments.
Reproductive Toxicity:	No evidence in animal experiments.

**Section 12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

LC <sub>50</sub> Rainbow trout (96 h)	>100 mg/L
EC <sub>50</sub> Daphnia magna (48 h)	>100 mg/L
EC <sub>50</sub> Lemna minor (14 d)	0.0413 mg/L
E <sub>b</sub> C <sub>50</sub> Green algae (72h)	0.0611 mg/L
Oral LD <sub>50</sub> Anas platyrhynchos	2250 mg/kg bodyweight
Oral LD <sub>50</sub> Apis mellifera (24h)	>70.25 µg/bee
Contact LD <sub>50</sub> Apis mellifera (24h)	>100 µg/bee
LC <sub>50</sub> Eisenia fetida	>1033 mg/kg

**12.2 Persistence and degradability**

**Florasulam**

Material is expected to biodegrade only very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

Stability in Water (1/2-life): > 30 d  
Theoretical Oxygen Demand: 0.85 mg/mg

OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method	10 Day Window
2 %	28 d	OECD 301B Test	Fail

Indirect Photodegradation with OH Radicals:

Rate Constant	Atmospheric Half-life	Method
7.04E-11 cm <sup>3</sup> /s	1.82 h	Estimated

**Propylene glycol**

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Biodegradation may occur under anaerobic conditions (in the absence of oxygen).

OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method	10 Day Window
81 %	28 d	OECD 301F Test	Pass
96 %	64 d	OECD 306 Test	Not applicable

**12.3 Bioaccumulative potential**

**Florasulam**

Bioaccumulation:

Partition coefficient, n-octanol/water (log Pow):  
Bioconcentration Factor (BCF):

Bioconcentration potential is low  
(BCF < 100 or Log Pow < 3).  
-1,22  
0.8; Fish (measured)

**Propylene Glycol**

Bioaccumulation:

Partition coefficient, n-octanol/water (log Pow):  
Bioconcentration Factor (BCF):

Bioconcentration potential is low  
(BCF < 100 or Log Pow < 3).  
-1,07 (measured)  
0.9; (estimated)

**12.4 Mobility in soil**

**Florasulam**

Mobility in soil:

Partition coefficient, soil organic carbon/water (Koc):  
Henry's Law Constant (H):

Potential for mobility in soil is very high  
(Koc between 0 and 50).  
4 – 54  
4.35E-07 Pa\*m3/mole.; 20 °C

**Propylene Glycol**

Mobility in soil:

Partition coefficient, soil organic carbon/water (Koc):  
Henry's Law Constant (H):

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process., Potential for mobility in soil is very high (Koc between 0 and 50).  
< 1 Estimated.  
1.2E-08 atm\*m3/mole (measured)

**12.5 Results of PBT and vPvB assessment**

**Florasulam**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

**Propylene Glycol**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB)

**12.6 Other adverse effects**

**Florasulam**

This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

**Propylene Glycol**

This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

**Section 13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Waste disposal procedures: 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.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Do not re-use empty containers. Empty containers should be taken for local recycling or waste disposal.

**Section 14. TRANSPORT INFORMATION**

Transport in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO / IATA for air transport (ADR 2011 - IMDG 2010 - ICAO / IATA 2011).

**14.1 UN Number**

3082

**14.2 UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Florasulam)

**14.3 Transport hazard class(es)**

9

**14.4 Packing group**

III

**14.5 Environmental hazards**

Dangerous to the environment

**14.6 Special precautions for user**

None

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

No Information available

**Section 15. REGULATORY INFORMATION**

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

None.

**15.2 Chemical safety assessment**

None.

**Section 16. OTHER INFORMATION**

Full list of relevant hazard and precautionary statements that were not given in full in sections 2 and 3.

H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

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First Issuance: 15.06.2017  
Current Issuance: 08/02/2022