

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

1.1 Product Identifier

Product Name: LAYA
Product Code: 019-01

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
Web: 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:

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

Precautionary Phrases:

P391	Collect spillage.
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.

Other Phrases:

- 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)
Metsulfuron-Methyl	74223-64-6		Aquatic acute 1; H400 Aquatic Chronic 1; H410	20
Sodium Carbonate	497-19-8	207-838-8	Eye Irrit. 2; H319	5 – 10
Lignosulfonic acid, sodium salt, sulfomethylated	68512-34-5		Eye Irrit. 2; H319	5 – 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. 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 soap and plenty of water. If skin irritation persists, consult a physician. Wash contaminated clothing before re-use.
- Eye contact: Remove contact lenses if present. Rinse immediately with plenty of water, with the eyelid open for at least 15 minutes. Obtain immediate medical attention.

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: Treat symptomatically. There is no specific antidote available.

Section 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

For small fires: Use water spray, dry chemical 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

Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO₂) and nitrogen oxides (NO_x). Exposure to products of combustion may be a health hazard.

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 firefighting to enter drains or water courses. If fire covers a large area, let fire burn itself out if conditions permit, as use of water may increase the area of contamination. Cool closed containers exposed to fire with water spray.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep bystanders away from and upwind of spill/leak. Use appropriate personal protective equipment, See Section 7 for information on handling and storage and Section 8 for information on PPE.

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. If spill area is porous, collect contaminated material for subsequent treatment or disposal.

6.3 Methods and materials for containment and cleaning up

Contain spillage. Avoid dust formation. For small spillages, sweep up or vacuum spillage and collect in container for disposal according to local/national legislation. For large spillages, clean up with an electrically protected vacuum cleaner or use wet-brushing and collect in a container for disposal according to local/national legislation. If spillage is on an area of ground near to plants/trees, remove 5 cm of top soil after initial clean-up.

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

No special handling advice required. Read label before use. DO NOT eat, drink or smoke during use. Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist. Do not store prepared working solution. Provide appropriate exhaust ventilation at places where dust is formed.

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. Keep out of reach of children. Keep separate from food, drink and animal feed. Keep away from heat and sources of ignition. Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

7.3 Specific end use(s)

Plant protection products are subject to Regulation (EC) No. 1107/2009.

Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Component	Exposure Limit	Value Type	Source
Sucrose	10 mg/m ³	TWA	EH40 WEL
	20 mg/m ³	STEL	EH40 WEL

8.2 Exposure controls

Respiratory protection:	In case of dust or aerosol formation, particularly in manufacturing and processing work, use a half mask with a particle filter FFP2 (EN149). Use self-contained breathing apparatus in case of emergency spills, when exposure levels are unknown, or under any circumstances where half mask with particle filter may not provide adequate protection.
Skin protection:	Wear suitable chemical-resistant clothing based on the potential for skin contact (normally full protective clothing Type 5 – EN 13982-2). Wash body thoroughly with soap and water after removing protective clothing. Decontaminate protective clothing before re-use. Wear an impervious protective suit as appropriate.
Hand protection:	Use nitrile rubber or other suitable chemical-resistant gloves. Gloves should have a minimum breakthrough time that is greater than 480 min. Gloves should be changed when breakthrough is suspected. Before removing gloves, clean with soap and water.
Eye protection:	Safety glasses with side shields conforming to EN 166
Engineering measures:	Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use appropriate additional measures to keep airborne levels below the relevant exposure limit. Where necessary, seek occupational hygiene advice.
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

Form	Solid, granular
Colour	Brown
Odour	Mild.
pH (at 20 °C):	9.56 to 9.70
Melting point (°C):	No data available
Boiling point/boiling range (°C):	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability:	Does not sustain combustion
Upper/lower flammability or explosive limits:	Does not sustain combustion
Vapour pressure:	No data available
Vapour density (air):	No data available
Bulk density:	0.61g/ml
Solubility in water:	Soluble
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	Not explosive
Oxidising properties:	Not oxidising

9.2 Other Information

None.

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No relevant reactivity data.

10.2 Chemical Stability

This mixture is stable at the handling and storage conditions recommended in Section 7.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use. Polymerisation will not occur. No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Avoid: Excessive Heat (>140°C). Under severe dusting conditions, this material may form explosive mixtures in air

10.5 Incompatible material

No relevant data.

10.6 Hazardous decomposition products

Sulphur oxides, Carbon dioxides, Nitrogen oxides.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

LD ₅₀ oral rat:	> 5000 mg/kg
LD ₅₀ percutaneous rat:	> 5000 mg/kg.
LC ₅₀ inhalation rat:	> 5.3 mg/L
Eye irritation rabbit:	Non-irritant
Skin irritation rabbit:	Non-irritant.
Sensitisation guinea pig:	Non-Sensitising
NOAEL oral rat (90d)	1000 mg/kg
NOAEL dermal rabbit (21d)	125mg/kg
Long-term toxicity:	No evidence of carcinogenic, teratogenic or mutagenic effects in animal experiments.

**11.2 Information on other hazards
Endocrine disrupting properties**

Product:
Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

LC50 Rainbow trout (96 h):	> 625 mg/L
EC50 Daphnia magna (48 h):	> 625 mg/L
ErC50 Green algae (72 h):	> 1.6 mg/L
EC50 Duckweed (14 d):	0.00235 mg/L

12.2 Persistence and degradability

Not readily biodegradable, Estimation based on data obtained with active ingredient

12.3 Bioaccumulative potential

Not bioaccumulative

12.4 Mobility in soil

Not mobile in soil

12.5 Results of PBT and vPvB assessment

The mixture does not meet the criteria applicable to mixtures PBT or vPvB in accordance with Annex XIII of the REACH Regulation (EC) No 1907/2006.

12.6 Endocrine disrupting properties

Product:

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

None.

Section 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal procedures: Dispose of in compliance with local regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

Contaminated packaging: Do not re-use empty containers. Empty containers should be taken for waste disposal.

Section 14. TRANSPORT INFORMATION

Transport the product in accordance with the provisions of ADR for road, RID for rail, IMDG for the sea, and ICAO / IATA for air transport

14.1 UN Number

3077

14.2 UN proper shipping name

Environmentally hazardous substance, solid, N.O.S., (Metsulfuron methyl).

14.3 Transport hazard class(es)

9

14.4 Packing group

III

14.5 Environmental hazards

Marine Pollutant

14.6 Special precautions for user

None known

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

To avoid risks to man and the environment comply with the instructions for use.

The product is classified as dangerous in accordance with Regulation (EC) No.1272/2008. Take note of Directive 94/33/EC on the protection of young people at work. Take note of Directive 92/85/EEC on the safety and health at work of pregnant workers. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Directive 96/82/EC on the control of major-accident hazards involving dangerous substances. Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

15.2 Chemical safety assessment

A chemical safety assessment is not required for this/these products.
The substance is registered as a plant protection product under Regulation (EC) No. 1107.2009
Refer to the label for exposure assessment information.

Section 16. OTHER INFORMATION

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

H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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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