

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

1.1 Product Identifier

Product Name: FRACAS
Product Code: 055-01

UFI Code: TNG4-XKVVX-N10S-5C8P

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

Serious Eye Damage	Category 1	H318
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:

Danger

Hazard Phrases:

H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Phrases:

P102	Keep out of reach of children.
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P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
+ P338 IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P308 + P311 Collect spillage.
P391 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.
P501

Other Phrases:

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH208 Contains fatty alcohol ethoxylate alkyl ether. May produce an allergic reaction.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
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).

2.3 Other Hazards

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

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 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	EC	Classification (Regulation (EC) No 1272/2008)	Concentration (% w/w)
Mesosulfuron-methyl, sodium salt	208465-21-8	-	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 M-Factor: 1,000 (acute)	3.0
Iodosulfuron-methyl-sodium	144550-36-7	-	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 M-Factor: 1,000 (acute)	1.0
Mefenpyr-diethyl	135590-91-9	-	Aquatic Chronic 2, H411	9.0
Fatty alcohol ethoxylate alkyl ether	1492044-51-5	-	Skin sensitisation 1B, H317 Serious eye damage 1, H318 Aquatic chronic 2, H411	5-10
Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt	68425-94-5	-	Eye irritation 2, H319	7-15
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	-	922-153-0	Aspiration toxicant 1, H304 Chronic aquatic toxicant 2, H411	10-20
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	68953-96-8	273-234-6	Acute toxicity 4, H312 Skin irritation 2, H315 Serious eye damage 1, H318 Chronic aquatic toxicity 2, H411	1-5
Iso-butanol	78-83-1	201-148-0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336	< 1-3

			(Central nervous system) STOT SE 3, H335 (Respiratory system)	
Kaolin	1332-58-7	310-194-1	Not classified	30-40
Silicon dioxide (chemically prepared)	112926-00-8	-	Not classified	1-3

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.
Ingestion:	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with plenty of water and ingest activated charcoal. Call a physician or poison control immediately.
Skin contact:	Remove contaminated clothing immediately. Wash off immediately with polyethylene glycol 400, then with plenty of water. If skin irritation persists, consult a physician. Dispose of contaminated clothing safely.
Eye contact:	Rinse immediately with plenty of water, with the eyelid open for at least 15 minutes. If wearing contact lenses remove these after the first 5 minutes of rinsing and then continue to rinse for the remaining 10 minutes. Obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	None known.
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4.3 Indication of any immediate medical attention and special treatment needed

There is no specific antidote. If more than a mouthful has been ingested administer activated charcoal and sodium sulphate. Treat symptomatically.

Section 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable:	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 release the following:	Hydrogen chloride (HCl) Hydrogen cyanide (hydrocyanic acid) Carbon monoxide (CO) Hydrogen iodide (HI) Sulphur oxides Nitrogen oxides (NOx)
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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 (Environment Agency emergency telephone number 0800 07 06 0).

6.3 Methods and materials for containment and cleaning up

Use mechanical handling equipment. Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See Section 7 for information on handling and storage and Section 8 for information on PPE.
See Section 13 for information on waste disposal.

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special technical protective measures required. No special handling advice required. Read label before use. DO NOT eat, drink or smoke during use. Avoid contact with skin and eyes. Avoid the formation of dust through friction.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required. Store in original container. 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.

7.3 Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Component	Exposure Limit	Value Type	Source
Mesosulfuron-methyl, sodium salt	10 mg/m ³	TWA	Supplier
Iodosulfuron-methyl-sodium	1 mg/m ³	TWA	Supplier
Mefenpyr-diethyl	10 mg/m ³	Supplier Standard	Supplier
Kaolin	2 mg/m ³ (Respirable dust)	TWA	Supplier
Silicon dioxide (chemically prepared)	6 mg/m ³ (Total inhalable dust) 2.4 mg/m ³ (Respirable dust)	TWA	Supplier

8.2 Exposure controls

Respiratory protection: Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent.

Skin protection: Wear suitable chemical-resistant clothing based on the potential for skin contact (Category 3 Type 5 coverall suit). Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. Wash body thoroughly with soap and water after removing protective clothing. Decontaminate protective clothing before re-use. Any clothing that can not be thoroughly cleaned should be disposed of.

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 (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed.
Eye protection:	Wear goggles. Eye protection should be certified to EN 166. Follow any site-specific eye protection policies.
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:	Water-dispersible granules
Colour:	Brown
Odour:	Aromatic
pH (at 23 °C):	8.0 – 9.6 at 10% (deionized water)
Bulk density:	672 – 788 kg/m ³
Solubility in water:	Dispersible
Log P octanol/water (at 21°C):	Mesosulfuron-methyl: -0.48 Iodosulfuron-methyl-sodium: -0.7 Mefenpyr-diethyl: 3.83
Impact Sensitivity:	Not impact sensitive
Oxidising properties:	Not oxidising
Explosive properties:	Not explosive

9.2 Other Information

9.2.1 Information with regard to physical hazard classes

None.

9.2.2 Other safety characteristics

None.

Information given is based on data obtained from similar formulation.

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

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 hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

10.4 Conditions to avoid

Avoid: Extreme temperatures and direct sunlight.

10.5 Incompatible material

Store only in original container.

10.6 Hazardous decomposition products

No decomposition products expected under normal conditions of use. See Section 5 for decomposition resulting from fire.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

LD₅₀ oral rat: > 2,000 mg/kg
LD₅₀ subcutaneous rat: > 5,000 mg/kg.
LC₅₀ inhalation rat: NA – Low dust formation

Eye irritation rabbit: Severe
Skin irritation rabbit: Slight irritant effect
Sensitisation guinea pig: Non sensitising (OECD Test Guideline 406, Buehler test)

Specific Repeated Target Organ Toxicity:

Mesosulfuron-methyl: No STOT in experimental animal studies
Iodosulfuron-methyl-sodium: No STOT in experimental animal studies
Mefenpyr-diethyl: No STOT in experimental animal studies

Mutagenicity:

Mesosulfuron-methyl: Not mutagenic or genotoxic (in vitro and in vivo testing)
Iodosulfuron-methyl-sodium: Not mutagenic or genotoxic (in vitro and in vivo testing)
Mefenpyr-diethyl: Not mutagenic or genotoxic (in vitro and in vivo testing)

Carcinogenicity:

Mesosulfuron-methyl: Not carcinogenic (lifetime feeding studies rats & mice)
Iodosulfuron-methyl-sodium: Not carcinogenic (lifetime feeding studies rats & mice)
Mefenpyr-diethyl: Not carcinogenic (lifetime feeding studies rats & mice)

Reproduction toxicity:

Mesosulfuron-methyl: Not reprotoxic (2 generation rat studies)
Iodosulfuron-methyl-sodium: Not reprotoxic (2 generation rat studies)
Mefenpyr-diethyl: Not reprotoxic (2 generation rat studies)

Developmental toxicity:

Mesosulfuron-methyl: No developmental toxicity (rats & rabbits)
Iodosulfuron-methyl-sodium: No developmental toxicity (rats & rabbits)
Mefenpyr-diethyl: Caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Mefenpyr-diethyl are related to maternal toxicity.

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.

Information given is based on data obtained from similar formulation.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

LC₅₀ Oncorhynchus mykiss (96 h): 7.5 mg/L
EC₅₀ Daphnia magna (48 h): 13.1 mg/L
EC₅₀ Pseudokirchneriella subcapitata (72 h): 3.2 mg/L
EC₅₀ Lemna gibba: 0.62 µg/L (7 days, mesosulfuron-methyl)
0.81 mg/L (14 days, iodosulfuron-methyl-sodium)
>12 mg/L (7 days, mefenpyr-diethyl)

12.2 Persistence and degradability

Biodegradability

Mesosulfuron-methyl:	Not rapidly biodegradable
Iodosulfuron-methyl-sodium:	Not rapidly biodegradable
Mefenpyr-diethyl:	Not rapidly biodegradable

Koc

Mesosulfuron-methyl:	92
Iodosulfuron-methyl-sodium:	45
Mefenpyr-diethyl:	625

12.3 Bioaccumulative potential

Mesosulfuron-methyl:	Does not bioaccumulate
Iodosulfuron-methyl-sodium:	Does not bioaccumulate
Mefenpyr-diethyl:	Does not bioaccumulate (BCF = 232)

12.4 Mobility in soil

Mesosulfuron-methyl:	Moderately mobile in soils
Iodosulfuron-methyl-sodium:	Moderately mobile in soils
Mefenpyr-diethyl:	Slightly mobile in soils

12.5 Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

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

Information given is based on data obtained from similar formulation.

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. Where possible, recycling is preferred to disposal or incineration. If recycling is not practical, dispose of in compliance with local regulations.
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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.
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Waste key for unused product:	020108 - Agrochemical waste containing dangerous substances
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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., (IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)

14.3 Transport hazard class(es)

9

14.4 Packing group

III

14.5 Environmental hazards

Marine pollutant, Dangerous to the environment.

14.6 Special precautions for user

See Sections 6 to 8 of this Safety Data Sheet.

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

A chemical safety assessment is not required.

Section 16. OTHER INFORMATION

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

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes severe eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic organisms.
H410	Very toxic to aquatic life with long lasting effects.
H411	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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