

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

1.1 Product Identifier

Product Name: CINTAC®
Product Description: Water dispersible granules

Chemical description of active substance (s): A product comprising of 3 % methyl 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-[[[(methylsulfonyl)amino]methyl]benzoate (mesosulfuron-methyl) and 1 % sodium salt of methyl 4-iodo-2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate (iodosulfuron-methyl-sodium)

Chemical Family: Sulfonyleurea

GCPF code: WG (Water dispersible granules)

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

Product Use: Agriculture – 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
Fax: +353 (0) 1 2832026
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 (EC) 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 (EC) No 1272/2008

Hazard pictograms:



Signal Word:

Danger

Hazard Statements:

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

Precautionary Statements:

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

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).

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)
Methyl 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-[[[(methylsulfonyl)amino]methyl] benzoate	208465-21-8	-	Aquatic Acute, 1, H400	3.0
4-iodo-2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoic acid methyl ester, monosodium salt	144550-36-7	-	Aquatic Acute, 1, H400 Aquatic Chronic, 1, H410	1.0
1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-1H-pyrazole-3,5-dicarboxylic acid, diethyl ester	135590-91-9	-	Not Classified	9.0
Fatty alcohol ethoxylate alkyl ether	1492044-51-5	-	Skin sensitisation, 1A, 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	10-20
Solvent naphtha, heavy aromatic	64742-94-5	922-153-0	Aspiration toxicant, 1, H304 Chronic aquatic toxicant, 2, H411	10-20
Tetrapropylene benzene sulfonate, calcium salt	68953-96-8	234-360-7	Flammable liquids, 3, H226 Acute toxicity, 4, H312	1-5

			Skin irritation, 2, H315 Serious eye damage, 1, H318 STOT – SE, 3, H335 STOT – SE, 3, H336 Chronic aquatic toxicity, 2, H411	
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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 unless directed to do so by a Poison Control Centre. 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 and seek medical advice 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

No known symptoms.

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 activate charcoal and sodium sulphate. Treat symptomatically.

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 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

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. 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)

Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

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)	OELV – 8 hrs (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). 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). Gloves should be changed when breakthrough is 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.

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	Water-dispersible granules
Colour	Brown
Odour	Aromatic

Chemical properties

pH (at 23 °C)	8.0 – 9.6
Bulk density	672 – 788 kg/m ³
Oxidising properties	Not oxidising
Explosive properties	Not explosive
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

9.2 Other Information

None

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data is available.

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: Heat 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

LD ₅₀ oral rat:	> 2,000 mg/kg
LD ₅₀ subcutaneous rat:	> 5,000 mg/kg.
LC ₅₀ inhalation rat:	NA – Low dust formation

Eye irritation rabbit: Severe
Skin irritation rabbit: Slight
Sensitisation guinea pig: Non sensitising

Specific 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)

Reprotoxicity:

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 & rabiits)
Iodosulfuron-methyl-sodium: No developmental toxicity (rats & rabiits)
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.

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 (see right): 0.62 µg/l (7 days, mesosulfuronmethyl)
0.81 mg/l (14 days, iodosulfuronmethyl-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 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 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. Where possible, recycling is preferred to disposal or incineration. If recycling is not practical, dispose of in compliance with local regulations.

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.

Waste key for unused product: 020108 - Agrochemical waste containing dangerous substances

Section 14. TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO / IATA for air transport (ADR 2013 - IMDG 2012 - ICAO / IATA 2013).

14.1 UN Number

3077

14.2 UN proper shipping name

Environmentally hazardous substance, solid, N.O.S., (IODOSULFURON-METHYL SODIUM, MESOSULFURONMETHYL, 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

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 relating to the classification and labelling contained in Section 3.

To avoid risks to man and the environment comply with the instructions for use. The mixture contains no ' substances of very high concern "(SVHC) published by the European Chemicals Agency (ECHA) under Article 57 of REACH <http://echa.europa.eu/uk/candidate-list-table>

15.2 Chemical safety assessment

None

Section 16. OTHER INFORMATION

Full list of Hazard 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 MSDS is correct to the best of our knowledge, information and belief at the date of its publication. However, the information given is designed only as a guidance for methods of handling, storage, use, transportation and disposal of the product, and is not considered to be a warranty or quality specification. Life Scientific Limited shall not be held liable for any loss or damage resulting from the handling, storage, use or disposal of the product. The information contained in this MSDS relates only to this specific product and may not be valid if this product is used in combination with any other products.

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