

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

CA Code (Nufarm)	: 3514
Oracle Recipe Code (Nufarm)	: 610000593
Item codes	: 110003650
Product form	: Mixture
Trade name	: ACCURATE EXTRA
Type (Nufarm)	: Country Specific
Country (Nufarm)	: United Kingdom

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

1.2.1. Relevant identified uses

Main use category	: Professional use
Use of the substance/mixture	: Herbicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Nufarm UK Limited
Wyke Lane
Wyke
BD12 9EJ Bradford - UK
T +44 (0)1274 691234 - F +44 (0) 1274691176
infouk@uk.nufarm.com

1.4. Emergency telephone number

Emergency number : +44 (0)1274 696603

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment — H400
Acute Hazard, Category 1
Hazardous to the aquatic environment — H410
Chronic Hazard, Category 1

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS09

Signal word (CLP)	: Warning
Hazardous ingredients	: Thifensulfuron-methyl + Metsulfuron-methyl
Hazard statements (CLP)	: H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P273 - Avoid release to the environment. 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.
EUH-statements	: EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

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2.3. Other hazards

Other hazards not contributing to the classification : Dust may form explosive mixture in air.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
thifensulfuron-methyl (ISO); methyl 3-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl)thiophene-2-carboxylate	(CAS-No.) 79277-27-3 (EC Index-No.) 016-096-00-2	68	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
metsulfuron-methyl (ISO); methyl-2-[[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]carbamoyl]sulfamoyl]benzoate	(CAS-No.) 74223-64-6 (EC Index-No.) 613-139-00-2	7	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts + sodium dioctyl sulphosuccinate	(CAS-No.) 1258274-08-6 + 577-11-7 (EC-No.) 800-660-7 + 209-406-401	7	Skin Irrit. 2, H315 Eye Dam. 1, H318
Sodium alkylnaphthalenesulphonate-formaldehyde condensate	(CAS-No.) 577773-56-9	5	Eye Irrit. 2, H319

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
- First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower. Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. Rinse mouth out with water. Do not induce vomiting. Drink plenty of water.

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

- Symptoms/effects : On ingestion in large quantities: May cause drowsiness or dizziness, Lethargy, Mental confusion, Coma.
- Symptoms/effects after inhalation : No information available.
- Symptoms/effects after skin contact : None under normal conditions.
- Symptoms/effects after eye contact : None under normal conditions.
- Symptoms/effects after ingestion : None under normal conditions.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Nitrogen oxides. Sulphur dioxide.

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.
Measures in case of dust release : Remove all sources of ignition. Risk of dust explosion.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Advise local authorities if considered necessary.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Use explosion-proof electrical/ventilating/lighting equipment.
Storage conditions : Store in a well-ventilated place. Keep cool.
Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.
Information on mixed storage : Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.
Storage area : Keep out of the reach of children. Store away from heat.
Special rules on packaging : Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

Herbicide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

thifensulfuron-methyl (ISO); methyl 3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)carbamoylsulfamoylthiophene-2-carboxylate (79277-27-3)		
EU	Local name	10 mg/m3 (8-hr TWA); (sulphonylureas)
metsulfuron-methyl (ISO); methyl-2-[[[4-methoxy-6- methyl-1,3,5-triazin-2-yl)carbamoyl] sulfamoyl]benzoate (74223-64-6)		
EU	Notes	10 mg/m3 (8-hr TWA) Sulphonyl urea

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Gloves. Protective clothing. Safety glasses. In case of insufficient ventilation, wear suitable respiratory equipment.

Materials for protective clothing:

Impermeable clothing

Hand protection:

Nitrile rubber gloves. Butyl rubber gloves. Impermeable protective gloves

Eye protection:

Safety glasses. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

Skin and body protection:

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Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granulate.
Colour	: Beige.
Odour	: Mild. Phenolic.
Odour threshold	: No data available
pH	: 4
pH solution concentration	: 1 %
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: Decomposes before boiling
Flash point	: Not applicable
Auto-ignition temperature	: > 400 °C
Decomposition temperature	: Thifensulfuron-methyl : 173°C; Metsulfuron-methyl : ~162°C
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: Thifensulfuron-methyl : 4 x 10E-8 @ 25°C ; Metsulfuron-methyl : 1.1 x 10E-10 Pa @ 20°C, 3.3 x 10E-10 Pa @ 25°C
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: Water: Dispersible
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: Not applicable

9.2. Other information

Bulk density : 0.68 g/cm³

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Heating can release hazardous gases.

10.5. Incompatible materials

No additional information available

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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ACCURATE EXTRA	
LD50 oral rat	> 2000 mg/kg (OECD 425 method)
LD50 dermal rat	> 2000 (OECD 402 method)
LC50 inhalation rat (mg/l)	> 5.49 mg/l/4h (OECD 403 method)
Sodium alkyl-naphthalenesulphonate-formaldehyde condensate (577773-56-9)	
LD50 oral rat	> 5000 mg/kg
thifensulfuron-methyl (ISO); methyl 3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl-carbamoylsulfamoyl)thiophene-2-carboxylate (79277-27-3)	
LD50 oral rat	> 5000 mg/kg (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	> 5.03 mg/l/4h (OECD 403 method)
metsulfuron-methyl (ISO); methyl-2-[[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]carbamoyl]sulfamoyl]benzoate (74223-64-6)	
LD50 oral rat	> 5000 mg/kg (method 40 CFR 163-81-1)
LD50 dermal rabbit	> 2000 mg/kg (method 40 CFR 163-81-2)
LC50 inhalation rat (mg/l)	> 6.2 mg/l/4h (method EEC B2)
Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts + sodium dioctyl sulphosuccinate (1258274-08-6 + 577-11-7)	
LD50 oral rat	2000 - 5000 mg/kg (OECD 401 method)
LD50 oral	> 3000 - 5000 mg/kg Sodium dioctyl sulphosuccinate (577-11-7); OECD 401
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
LD50 dermal	> 5000 mg/kg Rat; Sodium dioctyl sulphosuccinate (577-11-7); OECD 402

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 4
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 4
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

thifensulfuron-methyl (ISO); methyl 3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl-carbamoylsulfamoyl)thiophene-2-carboxylate (79277-27-3)	
LOAEL (oral, rat, 90 days)	≈ 200 mg/kg bodyweight/day Loss of weight

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Very toxic to aquatic life with long lasting effects.

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LC50 96h fish	> 100 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 48h crustacea	> 100 mg/l
EC50 72h algae	1.2 mg/l Pseudokirchneriella subcapitata

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ACCURATE EXTRA	
ErC50 (other aquatic plants)	0.68 µg/L Lemna gibba (Duckweed)
LD50, Eisenia fetida (Earthworm)	> 1000 mg/kg (14 days, Soil)
LD50, Oral, Apis mellifera (bee)	> 220 µg/bee (48 Hours)
LD50, Dermal, Apis mellifera (bee)	> 200 µg/bee (48 Hours)

metsulfuron-methyl (ISO); methyl-2-[[[4-methoxy-6- methyl-1,3,5-triazin-2-yl]carbamoyl]sulfamoyl]benzoate (74223-64-6)	
NOEC (chronic)	100 mg/l Daphnia magna (Water flea)
NOEC chronic fish	68 mg/l Oncorhynchus mykiss (Rainbow trout)

12.2. Persistence and degradability

ACCURATE EXTRA	
Persistence and degradability	Not readily biodegradable.

thifensulfuron-methyl (ISO); methyl 3-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl)thiophene-2-carboxylate (79277-27-3)	
Persistence and degradability	Not readily biodegradable.

metsulfuron-methyl (ISO); methyl-2-[[[4-methoxy-6- methyl-1,3,5-triazin-2-yl]carbamoyl]sulfamoyl]benzoate (74223-64-6)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

ACCURATE EXTRA	
Bioaccumulative potential	No bioaccumulation.

thifensulfuron-methyl (ISO); methyl 3-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl)thiophene-2-carboxylate (79277-27-3)	
Log Kow	-1.7 pH7 ; 25°C
Bioaccumulative potential	No bioaccumulation.

metsulfuron-methyl (ISO); methyl-2-[[[4-methoxy-6- methyl-1,3,5-triazin-2-yl]carbamoyl]sulfamoyl]benzoate (74223-64-6)	
Log Kow	< 1 pH7, 25°C
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

ACCURATE EXTRA	
Mobility in soil	Mobile

thifensulfuron-methyl (ISO); methyl 3-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl)thiophene-2-carboxylate (79277-27-3)	
Mobility in soil	Mobile

metsulfuron-methyl (ISO); methyl-2-[[[4-methoxy-6- methyl-1,3,5-triazin-2-yl]carbamoyl]sulfamoyl]benzoate (74223-64-6)	
Mobility in soil	Mobile

12.5. Results of PBT and vPvB assessment

ACCURATE EXTRA	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Special local collectors can exist.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
European List of Waste (LoW) code	: 02 01 08* - agrochemical waste containing dangerous substances

SECTION 14: Transport information




In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA
14.1. UN number		
3077	3077	3077
14.2. UN proper shipping name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (thifensulfuron-methyl and metsulfuron-methyl)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (thifensulfuron-methyl and metsulfuron-methyl)	Environmentally hazardous substance, solid, n.o.s. (thifensulfuron-methyl and metsulfuron-methyl)
Transport document description (ADR)		
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (thifensulfuron-	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (thifensulfuron-	UN 3077 Environmentally hazardous substance, solid, n.o.s. (thifensulfuron-methyl)

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ADR	IMDG	IATA
methyl and metsulfuron-methyl), 9, III, (-)	methyl and metsulfuron-methyl), 9, III, MARINE POLLUTANT	and metsulfuron-methyl), 9, III
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: M7
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: PP12, B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV, LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V13
Special provisions for carriage - Bulk (ADR)	: VC1, VC2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	: 
Tunnel restriction code (ADR)	: -
EAC code	: 2Z

- Transport by sea

Special provisions (IMDG)	: 274, 335, 966, 967, 969
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
Special packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1, BK1, BK2, BK3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A

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Stowage and handling (IMDG) : SW23

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg
Special provisions (IATA) : A97, A158, A179, A197
ERG code (IATA) : 9L

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

Seveso Information : Seveso category(Dir. 2012/18/EU): dangerous for the environment.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H315	Causes skin irritation.
H318	Causes serious eye damage
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

NUFARM SDS TEMPLATE

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.