

Material Safety Data Sheet

1. Identification of the substance/preparation and company/undertaking

Product

Trade Name: **ASSET**

Recommended Uses Agricultural Herbicide

Company

Manufacturer / Supplier: AgriGuard Ltd
Address: Unit 1, Block B, Broomfield Business Park
Malahide, Co. Dublin
Ireland
Telephone Number: +353-1-8462044
Fax Number: +353-1-8462489
e-mail: info@agriguard.ie
Emergency Telephone No.: 0870-600-6266 [UK National Poisons Control Information Service (NPIS) Centre]
01-8379964/66 (Poisons Information Centre, Beaumont Hospital, Beaumont, Dublin 9, Ireland)

2. Composition/Information on Ingredients

Component	CAS Registry No.	EINECS ELINCS No.	Conc. % w/w	R phrase*	Symbol
Metsulfuron-methyl	74223-64-6	-	20	R50/53	N
Methyl 2-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl)benzoate (IUPAC)					
Sodium carbonate	497-19-8	207-838-8	6	R36	Xi

*Reference section 16

3. Hazards Identification

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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4. First Aid Measures

Skin Contact:	Wash the affected area immediately with soap and water. Seek medical attention if necessary.
Eye Contact:	Rinse out with plenty of water with the eyelid held wide open and seek medical attention.
Inhalation:	Move to fresh air. Immediately seek medical attention.
Ingestion:	Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Immediately seek medical attention.
Further Information:	Never give anything by mouth to an unconscious person. If breathing is irregular or stopped, administer artificial respiration. For further advice on treatment contact the nearest Poisons Information Centre: 0870-600-6266 [UK National Poisons Control Information Service (NPIS) Centre]

5. Fire-fighting Measures

Suitable extinguishing media:	Water spray, foam, carbon dioxide, dry powder.
Extinguishing media which must not be used for safety reasons:	High pressure water jet media
Special protective equipment for fire-fighting:	Wear self contained breathing apparatus and protective clothing (chemical protection suit, boots and plastic or rubber gloves).
Special exposure hazards:	Dust may form explosive mixture in air.
Other Information:	(On small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with spray water. Contain fire-fighting water with sand or some such bunding material.

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6. Accidental Release Measures

Personal precautionary measures:

Wear the personal protective equipment outlined in section 8 below.

Environmental-protection measures:

Keep the area isolated and do not allow contamination to enter drains or waterways. Spillage or uncontrolled discharges into watercourses must be alerted to the National Rivers Authority. If the product has entered a watercourse or sewer, or grossly contaminated soil or vegetation in a public place, advise police.

Procedures for cleaning/absorption:

The spillage should be taken up with a vacuum cleaner or a suitable dust binding material taking care to avoid the formation of dust, all cleaned surfaces should then be wiped with a damp cloth. All cleaned up product and cleaning materials should then be transferred to secure containers and sent for disposal.

7. Handling and Storage

Handling: Keep product in original tightly closed container. Avoid inhalation of particles. Provide appropriate exhaust ventilation at places where dust is formed. **Dust may form explosive mixture in air.** Do not get on skin, eyes or clothing. Do not eat, drink or smoke when handling. Wash hands before eating, drinking or smoking.

Storage: Store in a dry area in the original containers, access should only be for authorised persons. Store away from animal foodstuffs, seeds and fertilisers. Stable under recommended storage conditions.

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8. Exposure Controls/Personal Protection

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Eye protection: Wear safety goggles conforming to BS 2092.

Hand protection: Wear nitrile gauntlet type gloves. Do not wear cotton or leather gloves.

Respiratory protection: Wear a respirator with a fine dust mask (Class P2) following the manufactures instructions for use.

Skin and body protection: Lightweight protective clothing should be worn to prevent contamination.

Industrial Hygiene:

Avoid contact with product. When using do not eat, drink or smoke. Immediately change contaminated clothing, dispose of if decontamination is not feasible. Keep the work area clean and wash hands before finishing work.

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9. Physical and Chemical Properties

Appearance:	Solid, granular
Colour:	Brown
Odour:	Mild
pH:	9.0 – 9.5 at 10 g/l
Melting point/melting point range	Not applicable
Boiling point/boiling point range:	Not applicable
Flash Point	Not applicable
Flammability:	Non-flammable
Autoflammability	Non-flammable
Explosive properties: Lower limit Upper limit	Not explosive
Oxidising properties	None
Vapour pressure	Not available
Relative density	570 kg/m ³
Solubility Water solubility Fat solubility	Soluble Not available
Partition coefficient n-octanol/water	Not available
Other Data:	None

10. Stability and Reactivity

Stability:	Stable under normal conditions of storage
Conditions to avoid:	Decomposes on heating > 140 ⁰ C.
Materials to avoid:	None under normal conditions of use.
Hazardous decomposition products:	Carbon oxides, nitrogen oxides (NO _x), sulphur oxides.

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11. Toxicological Information

Acute toxicity:LD₅₀ (oral, rat): > 5000mg/kgLD₅₀ (skin, rabbit): > 5000mg/kg**Sensitisation:** Did not cause sensitisation on laboratory animals**Further toxicological information:**

After eye contact Not irritant

After skin irritation Not irritant

12. Ecological Information

Mobility: Not known.**Degradability:** Not readily biodegradable.**Bioaccumulative potential:** Not known**Aquatic toxicity:** Rainbow Trout LC₅₀ (96hr): > 625 mg/l
Daphnia Magna EC₅₀ (48hr): > 625 mg/l

13. Disposal Considerations

Waste from residues/unused products: Dispose of product concentrate and diluted product according to the 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings' available from HMSO.**Contaminated packaging:** Dispose of empty containers according to the 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings' available from HMSO.
Do not re-use container for any purpose.**Further information:** Contact the Local Council Authority for advice on the disposal of pesticide waste, or ask an approved waste disposal contractor.

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14. Transport Information

UN proper shipping name: Environmentally hazardous substance, solid, n.o.s
(Metsulfuron methyl)

UN Number: 3077

Road/Railway

Proper shipping name: Environmentally hazardous substance, solid, n.o.s
(Metsulfuron methyl)

UN Number: 3077

Class: 9

Packaging group: III

Hazard Identification No.: 90

Inland waterways

Proper shipping name: Environmentally hazardous substance, solid, n.o.s
(Metsulfuron methyl)

UN Number: 3077

Class: 9

Item: 12

Letter: c

Hazard Identification No.: 90

Sea

Proper shipping name: Environmentally hazardous substance, solid, n.o.s
(Metsulfuron methyl)

UN Number: 3077

Class: 9

Packaging group: III

Marine pollutant: P

Air

Proper shipping name: Environmentally hazardous substance, solid, n.o.s
(Metsulfuron methyl)

UN Number: 3077

Class: 9

Packaging group: III

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15. Regulatory Information

Classification in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3.

Hazardous components which must be listed on the label:

Metsulfuron methyl

Symbol(s):	N	Dangerous for the environment
R phrases:	R51/53	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
S phrases:	S35	This material and its container must be disposed of in a safe way
	S57	Use appropriate contamination to avoid environmental contamination.

Designated name: **ASSET** (contains Metsulfuron methyl 20%)

This product is covered by the Control of Pesticides Regulations, 1986, and is labelled accordingly (MAPP 13902).

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16. Other Information

Health and Environmental Hazards

Text of R phrases mentioned in Section 2

R phrases:

R36	Irritating to eyes
R50	Very toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

Recommended Uses: Agricultural Herbicide

Recommended Restrictions: Refer to statutory conditions on approved product label

Further information:

Date of First Issue: 20th of February 2008

Disclaimer:

The information contained in this MSDS is designed to give general health and safety guidance on the storage and transport of the substance/preparation to which it relates. Requirements arising from a Risk Assessment of the substance/preparation in a particular working environment should take precedence over any of the guidance contained in this MSDS where there is a difference in the information given. The information contained in this MSDS is accurate at the date of publication and will be updated as and when appropriate. Liability will not be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this MSDS.

Compiled in accordance with EC Directive 91/115/EEC and subsequent amendments EC directives 93/112/EEC and 2001/58/EC.