

Material Safety Data Sheet

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

Product

Trade Name: **BRACK-N**

Recommended Uses: Agricultural/Horticultural and Forestry Herbicide

Company

Manufacturer / Supplier: Agriguard Ltd
Address: Unit 3, Block B, Tally House, 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. g/l	R phrase*	Symbol
Asulam Sodium Sodium methyl sulfanilylcarbamate (IUPAC)	2302-17-2	N/A	400	R43, R50	Xi, N

N/A = Not Available

*Reference section 16

3. Hazards Identification

May cause sensitisation by skin contact.
Very toxic to aquatic organisms.

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4. First Aid Measures

- Skin Contact:** Remove contaminated clothing and 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 for at least 15 minutes. Seek medical attention.
- Inhalation:** Immediately remove from exposure to fresh air. Seek medical attention immediately.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. Keep patient at rest. Seek medical attention.
- Further Information:** This product although a carbamate is not a cholinesterase inhibitor
Initial treatment should be symptomatic and supportive.
No known antidote.

For further advice on treatment contact:
The UK National Poisons Control Information Service (NPIS)
Centre (Emergency Telephone No.: 0870-600-6266) or
The Poisons Information Centre, Beaumont Hospital, Beaumont,
Dublin 9, Ireland (Telephone 01-8379964/66).

5. Fire-fighting Measures

Suitable extinguishing media: Water spray, foam, carbon dioxide, sand or dry powder.

Extinguishing media which must not be used for safety reasons: None known

Special protective equipment for fire-fighting: Wear protective clothing and self contained breathing apparatus. Do not breathe fumes.

Special exposure hazards: May give off toxic fumes if heated to decomposition.

Other Information: Intact containers should be removed from risk of exposure to the fire if it is safe to do so. If it is not safe to remove them, spray intact containers with water to keep them cool. Contain fire-fighting water with sand or some such bunding material.

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6. Accidental Release Measures

Personal precautionary measures:

Avoid contact with spilled material or contaminated surfaces.
Refer to section 8 below for personal protection required.

Environmental-protection measures:

Keep the area isolated and do not allow contamination to enter the sewerage system.
If the product has entered the sewerage system or contaminated a public place advise the appropriate authority.

Procedures for cleaning/absorption:

Contain/absorb the spillage with a suitable inert absorbent material or sand which should then be transferred to heavy duty plastic drums and send for disposal.

7. Handling and Storage

Handling: No specific precautions required when handling unopened containers. If exposure is possible refer to Section 8.

Storage: Store in a cool, dry, well ventilated area in the original containers, access should only be for authorised persons.
Keep away from direct sunlight. Protect against frost.
Store at 0 – 30 °C

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8. Exposure Controls/Personal Protection

Occupational exposure limits:

None assigned.

Engineering measures to reduce exposure:

Ensure adequate ventilation especially in confined areas. Refer to any applicable COSHH assessments.

Personal protective equipment:

Respiratory protection: None required when handling the product.

Eye protection: Wear safety goggles (conforming to BS EN 166)

Hand protection: Wear chemical resistant PVC or nitrile gloves.

Skin and body protection: Wear PVC or chemical resistant disposable overalls and PVC boots. Remove and wash contaminated clothing before re-use.

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9. Physical and Chemical Properties

Appearance:	Liquid
Colour:	Light brown
Odour:	Characteristic
pH:	7 – 8 (undiluted)
Melting Point/Melting point range:	Not applicable
Boiling Point/Boiling Point range:	100 ^o C
Flash Point:	Non combustible
Flammability	Non flammable
Autoflammability	Non applicable
Explosive properties: Lower limit Upper limit	Not explosive
Oxidising properties	None
Vapour Pressure:	Not known
Relative density:	1.20 g/ml @ 20 ^o C
Solubility Water solubility Fat solubility	Miscible Not applicable
Partition coefficient n-octanol/water	Log Pow 0.1 – 0.8
Other Data:	A non-combustible liquid

10. Stability and Reactivity

Stability:	Stable at ambient temperature
Conditions to avoid:	Temperature extremes and direct sunlight
Materials to avoid:	None known
Hazardous decomposition products:	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

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11. Toxicological Information

Acute toxicity:

LD₅₀ (oral, rat): > 8000 mg/kg

LC₅₀ (inhalation, rat): > 1.7 mg/l. exposure time 4 hours.

LD₅₀ (skin, rat): > 2000 mg/kg.

Sensitisation: Skin sensitiser in guinea pig.

Further toxicological information:

Carcinogenicity: No evidence of carcinogenicity

Genotoxicity: No evidence of being a mutagen

Reproductive Toxicity: No evidence of substance related effects on growth or reproduction

After skin contact: Non irritating to rabbit skin

After eye contact: Non irritating to rabbit eyes.

12. Ecological Information

Data is for active ingredient

Mobility: Not known

Persistence and Degradability: DT50 6-14 days.
Short persistence in soil

Bioaccumulative potential: Not known

Aquatic toxicity: LC50 (96 hr) for trout > 175 mg/l
EC50 (Daphnia, 48 hr) 63.4 mg/l

Algae toxicity: EC50 (120 hr) 0.19 mg/l (Selenastrum capricornutum)

Other toxicity: LD50 Mallard Duck > 4000 mg/kg
Not toxic to bees.

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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, liquid, n.o.s.
(asulam-sodium solution)

UN Number 3082

Road/Railway

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
(asulam-sodium solution)

UN Number 3082

Class: 9

Packaging group: III

Hazard Identification No.: 90

Inland waterways

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
(asulam-sodium solution)

UN Number 3082

Class: 9

Item: 11

Letter: c

Hazard Identification No.: 90

Sea

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
(asulam-sodium solution)

UN Number 3082

Class: 9

Packaging group: III

Marine pollutant: P

Air

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
(asulam-sodium solution)

UN Number 3082

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:

None

Symbol(s):	Xi N	
R phrases:	R43 R50	May cause sensitisation by skin contact Very toxic to aquatic organisms
S phrases:	S24 S35 S37 S57	Avoid contact with the skin This material and its container must be disposed of in a safe way Wear suitable gloves Use appropriate containment to avoid environmental contamination

Designated name: BRACK-N (contains Asulam sodium 400 g/L)

This product is covered by the Control of Pesticides Regulations, 1986, and is labelled accordingly (MAPP 13138).

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16. Other Information

Health and Environmental Hazards:

Text of R phrases mentioned in Section 2

R phrases:	R43	May cause sensitisation by skin contact.
	R50	Very toxic to aquatic organisms.

Recommended Uses: Agricultural/Horticultural and Forestry Herbicide

Recommended Restrictions: Refer to statutory conditions on approved product label

Further information:

Date of First Issue: 21ST March 2007

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 91/155/EEC and subsequent amendments EC Directives 93/112/EEC and 2001/58/EC.