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

Trade name : NICANOR 50 WP
Relevant identified uses : Herbicide
Company identification : ADAMA SOUTH AFRICA (PTY) LTD
21 Viben Street
Brackenfell 7560
Email : msds@mcw.co.il
Emergency phone nr : +27 82 331 6463
+27 21 982 1460

SECTION 2. Hazards identification

Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3. Composition/information on ingredients

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	Classification
Metsulfuron-methyl	: 48 - 53 %	74223-64-6	-----	613-139-00-2	----	N; R50-53 (M fact. = 1000)

SECTION 4. First aid measures

First aid measures
Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration .
Get medical attention.
Skin contact : Remove contaminated clothing and shoes. Wash away remainder with plenty of water.
Eye contact : Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.
Ingestion : Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy.
Protection of first-aiders : Use appropriate protection (see section 8).

SECTION 5. Fire-fighting measures

Suitable extinguishing media : For small fire : dry chemical powder , water spray carbon dioxide
For large fire : foam , water fog , water spray.
Protection against fire : Self-contained breathing apparatus and total protection required in enclosed areas.
Hazardous decomposition products : Sulfur oxides , nitrogen oxides (NO, NO2) , carbon oxides (CO, CO2) .

SECTION 6. Accidental release measures

For emergency responders : Wear suitable protective clothing, gloves and eye/face protection.
Environmental precautions : Do not empty into drains Do not discharge into the environment.
Clean up methods : Collect spills and put it into appropriated container. Dispose of this material and its container at hazardous or special waste collection point.
Keep away from combustible material.

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SECTION 7. Handling and storage

Handling	: Ventilation required.
Storage	: Keep in original containers. Keep away from food, drink and animal feeding stuffs. Store in dry, well-ventilated area.
Precautions in handling and storage	: Handle in accordance with good industrial hygiene and safety procedures.
Storage - away from	: Direct sunlight .

SECTION 8. Exposure controls/personal protection

TLV®	: Metsulfuron-methyl: Data not available.
	: Ventilation required.
	: Wash hands thoroughly after handling. When using do not eat, drink or smoke. Wash clothing before re-using.
Personal protection	
• Respiratory protection	: Dust mask
• Hand protection	: Wear suitable gloves.
• Skin protection	: Wear suitable protective clothing Wear safety boots.
• Eye protection	: Chemical goggles or safety glasses.

SECTION 9. Physical and chemical properties

Physical state at 20 °C	: Powder
Colour	: White -off white
Odour	: Faint odour
pH value	: 4-5
Melting point [°C]	: 158
Flammability	: Not flammable
Vapour pressure [mPa]	: 3.3 e-7 @ 25°C (Metsulfuron-methyl)
Solubility in water	: Dispersible
Log P octanol / water at 20°C	: 0.018 @ pH 7, 25°C (Metsulfuron-methyl)
Explosive Properties	: Not explosive
Oxidising properties	: Not oxidizing

SECTION 10. Stability and reactivity

Stability	: Stable under normal conditions.
Hazardous decomposition products	: Sulfur oxides , nitrogen oxides (NO, NO2) , carbon oxides (CO, CO2) .
Materials to avoid	: oxidizing agents , acids , alkali .

SECTION 11. Toxicological information

On product	
- Rat oral LD50 [mg/kg]	: >5,000
- LD50 Rabbit dermal [mg/kg]	: >2,000
- Rat inhalation LC50 [mg/l/4h]	: >5.0
Dermal irritation (rabbit)	: Not irritating
Eyes irritation (rabbit)	: Mildly irritating
Sensitization	: Non sensitizer
Mutagenicity	: (Metsulfuron-methyl): Not mutagenic

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SECTION 11. Toxicological information (continued)

Carcinogenicity	: (Metsulfuron-methyl): EPA : Group E EU : Not classified
Toxic for reproduction : Fertility	: (Metsulfuron-methyl): Not considered to be toxic for the reproductive system.
Toxic for reproduction	: (Metsulfuron-methyl): Not teratogenic in animal experiments

SECTION 12. Ecological information

96 H-LC50 - Rainbow trout [mg/l]	: >150
48 H-EC50 - Daphnia magna [mg/l]	: >120
72 H-EC50 - Algae [mg/l]	: 0.157
LD50 Birds [mg/kg]	: Mallard duck >2,500
Bees LD50 [µg]	: Not toxic to bees
Persistence - degradability	: Metsulfuron-methyl: Soil : : Moderately persistent in soil. Half-life time (t1/2) : 30 days.
Mobility	: (Metsulfuron-methyl): Soil : : Moderately mobile

SECTION 13. Disposal considerations

General	: Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers. Dispose in a safe manner in accordance with local/national regulations.
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SECTION 14. Transport information

UN N°	: 3077
Proper shipping name	: Environmentally hazardous substances, solid, N.O.S. (Metsulfuron-methyl).
- H.I. no	: 90
Land transport (ADR-RID)	
ADR - Special provision	: Class 9, M7, PG III
Sea transport (IMDG) [English only]	
- IMO-IMDG code	: Class 9, PG III
- Emergency Schedule (EmS) - Fire	: F-A, S-F
- IMDG-Marine pollution	: Yes
Air transport (ICAO-IATA) [English only]	
- IATA - class or division	: 9, PG III
International transport regulations	
National transport regulations	: No additional national regulations are available/required

SECTION 15. Regulatory information

EU Classification	: According to Commision Directive 67/548/EEC, 1999/45/EC and its amendments
Symbol(s)	



R Phrase(s)	: N: N : Dangerous for the environment. : R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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SECTION 15. Regulatory information (continued)

S Phrase(s) : S02 - Keep out of the reach of children.
S13- Keep away from food, drink and animal feedingstuffs.
S29/35- Do not empty into drains; dispose of this material and its container in a safe way.
S36/37- Wear suitable protective clothing and gloves.
S46- If swallowed, seek medical advice immediately and show this container or label.
S57- Use appropriate containment to avoid environmental contamination.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

SECTION 16. Other information

List of relevant R phrases (heading 3) : R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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