

Safety Data Sheet

Conforms to 1907/2006/EC

Version 2

Issue date 27-9-2007

Magnesamon						
1 Identification of the substance/preparation and of the company/undertaking						
Commercial product name	Magnesamon					
Common chemical name	Magnesium ammonium nitrate					
Synonyms	Magnesium ammonium nitrate 22 (+7)					
Chemical formula	22%N + 7% MgO					
Use of the substance/preparation	EC FERTILISER					
EU category number						
Company name	DSM Agro B.V.					
Company address	P.O. Box 43 6130 AA Sittard The Netherlands					
Company telephone	(31) 46 477 03 20					
Company e-mail	dsm.agro@dsm.com					
Emergency telephone	(31) 46 476 55 55 24/24 hours 7/7 days					
2 Hazards identification						
Physical/chemical hazards						
Environmental hazards	Slightly harmful to the aquatic environment.					
Effect(s) of (over)exposure						
Symptom(s) of (over)exposure	Dust may cause mechanical irritation.					
Inhalation	Over-exposure by inhalation may cause respiratory irritation. (coughing)					
Ingestion	After intake of large quantities: Can cause gastrointestinal disturbances.					
Skin contact	Slightly irritating to the skin. (redness).					
Eye contact	May cause eye irritation. (redness).					
3 Composition/information on ingredients						
Hazardous ingredients						
Chemical name	CAS no.	EC no.	% (w/w)	Symbol	R phrases	
Ammonium nitrate	6484-52-2	229-347-8	63	-	-	
Other ingredients						
Chemical name	CAS no.	EC no.	% (w/w)	Symbol	R phrases	
Dolomite	16389-88-1	240-440-2	36	-	-	
additives/inert fillers			1			
<i>EC no. means EINECS or ELINCS number.</i>						

4	First aid measures	
	General Inhalation Ingestion Skin contact Eye contact Note to physician	<p>If inhaled, remove to fresh air. Obtain medical attention if symptoms occur.</p> <p>If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Obtain medical attention if symptoms occur.</p> <p>Rinse with plenty of running water. Remove contaminated clothing and shoes. Obtain medical attention if symptoms occur.</p> <p>Rinse with plenty of running water. Obtain medical attention if symptoms occur.</p> <p>methaemoglobinaemia</p>
5	Fire-fighting measures	
	Extinguishing media Small fire Large fire Extinguishing media not to be used Unusual fire and explosion hazards Hazardous thermal decomposition and combustion products Special fire fighting procedures	<p>Non-combustible. Water</p> <p>Non-combustible. Water</p> <p>In case of fire, may produce hazardous decomposition products such as nitrogen oxides (NO, NO₂ etc.), ammonia (NH₃), amines.</p> <p>No special measures required. Wear suitable protective clothing. Self-contained breathing apparatus.</p>
6	Accidental release measures	
	Personal precautions Environmental precautions Methods for cleaning up Small spill and leak Large spill and leak Remarks	<p>Avoid creating dusty conditions and prevent wind dispersal. Use suitable protective equipment (section 8).</p> <p>Avoid contact of spilt material with soil and prevent runoff entering surface waterways.</p> <p>Vacuum or sweep up material and place in a designated, labelled waste container. Clean up affected area with a large amount of water.</p> <p>Vacuum or sweep up material and place in a designated, labelled waste container. Recycle, if possible. Prevent formation of dust clouds. Clean up affected area with a large amount of water.</p> <p><i>Note: see section 8 for personal protective equipment and section 13 for waste disposal.</i></p>
7	Handling and storage	
	Handling Storage Specific use(s) Packaging materials Note: See section 10 for stability and reactivity	<p>Use with adequate ventilation. Local exhaust ventilation should be provided. Avoid creating dusty conditions and prevent wind dispersal. Avoid the creation of dust when handling. Avoid contamination by any source including metals, dust and organic materials. Keep away from moisture.</p> <p>Avoid contact with combustible materials. Keep in a cool and dry place. Keep away from hay, grain, diesel etc.</p> <p>EC FERTILISER</p> <p>iron, Synthetic material Non suitable: Zinc., Copper</p>
8	Exposure controls / Personal protection	
	Exposure limit values Engineering measures Hygienic measures	<p>None required. However, use of adequate ventilation : is good industrial practice.</p> <p>When using do not eat, drink or smoke. Wash hands after handling compounds and before eating, smoking and using the lavatory and at the end of the day.</p>

11 Toxicological information						
Acute toxicity						
Ingredient name	Test	Species	Route	Result		
Ammonium nitrate	LD50	Rat	Dermal	>5000 mg/kg		
	LD50	Rat	Oral	2950 mg/kg		
	LD50	Rat	Oral	2800 mg/kg		
	LD50	Rat	Oral	2462 mg/kg		
	LD50	Rat	Oral	2217 mg/kg		
	LC50	Rat	Inhalation dusts and mists	88 mg/L (4 hours)		
Irritation						
Sensitization						
Chronic toxicity						
No known significant effects or critical hazards.						
Carcinogenicity						
No known significant effects or critical hazards.						
Reproductive toxicity						
No known significant effects or critical hazards.						
Mutagenicity						
Ingredient name	Test	Experiment		Result		
Ammonium nitrate	-	In vitro; Bacteria; yes and no: same result		Negative		
Classification						
Ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Ammonium nitrate	-	2A	-	-	-	-
Remarks						
Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Methaemoglobinaemia						
12 Ecological information						
Ingredient name	Aquatic half-life	Photolysis	Biodegradability			
Ammonium nitrate	-	-	readily			
Ingredient name	Test		Period	Result		
Ammonium nitrate	Daphnia (EC50)		48 hours	10-100 mg/L		
	Algae (IC50)		72 hours	10-100 mg/L		
	Fish (LC50)		96 hours	10-100 mg/L		
Ingredient name	LogPow	Bio-concentration factor	Bioaccumulative potential			
Ammonium nitrate	-3.1	-	low			
Mobility						
For data on physical state and solubility see section 9.						
Persistence and degradability						
Readily biodegradable This product shows a low bioaccumulation potential.						
Bioaccumulative potential						
The product does not contain organically bound halogens which could lead to an AOX value in waste water.						
Ecotoxicity						
The product does not contain organically bound halogens which could lead to an AOX value in waste water.						
13 Disposal considerations						
Responsibility of the receiver to have knowledge of national and local regulations.						
Methods of disposal						
Waste must be disposed of in accordance with national and local environmental regulations. Controlled biodegradation in waste water treatment is possible.						

14 Transport information						
Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR/RID Class	Not regulated.	Magnesium ammonium nitrate	-	-	-	-
ADNR Class	Not regulated.	Magnesium ammonium nitrate	-	-	-	-
IMDG Class	Not regulated.	Magnesium ammonium nitrate	-	-	-	-
IATA Class	Not regulated.	Magnesium ammonium nitrate	-	-	-	-
15 Regulatory information						
Responsibility of the receiver to have knowledge of national and local regulations.						
EU regulations		EC FERTILISER				
Hazard symbol		According to EU Directives 67/548/EEC and 1999/45/EC this product does not require labelling.				
R- and S phrases		According to EU Directives 67/548/EEC and 1999/45/EC this product does not require labelling.				
National Fire protection Association (U.S.A)						
16 Other information						
Risk phrases		-				
Safety phrases		-				
Symbols		-				
Storage classification		-				
Date previous SDS		07-12-2004				
Modifications in this version		lay-out, additional information in sections 11,12,14,16				
References						
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