

Safety Data Sheet

Conforms to 1907/2006/EC

Version 3
Issue date 18-9-2007

Ammonium sulphate

1 Identification of the substance/preparation and of the company/undertaking						
Commercial product name	Ammonium sulphate (crystalline) / Ammonium sulphate					
Common chemical name	Ammonium sulphate					
Synonyms	Sulphate of ammonia; Sulphate of ammonia 21 (+24)					
Chemical formula	(NH ₄) ₂ SO ₄					
Use of the substance/preparation	EC FERTILISER / Additive or raw material for chemical synthesis.					
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	Based on the available data of this product no hazardous properties are known.					
Environmental hazards	Harmful to aquatic organisms.					
Effect(s) of (over)exposure						
Symptom(s) of (over)exposure	Dust may cause mechanical irritation. May be harmful if swallowed. Coughing. Sore throat . shortness of breath/breathing difficulty					
Inhalation	May be mildly irritating. Coughing. Sore throat . shortness of breath/breathing difficulty					
Ingestion	May be harmful if swallowed. Nausea, vomiting, diarrhoea.					
Skin contact	May be mildly irritating.					
Eye contact	May cause eye irritation. (redness).					
3 Composition/information on ingredients						
Chemical name	CAS no.	EC no.	% (w/w)	Symbol	R phrases	
Ammonium sulphate	7783-20-2	231-984-1	100	-	-	
<i>EC no. means EINECS or ELINCS number.</i>						
4 First aid measures						
General	Move exposed person to fresh air.					
Inhalation	If inhaled, remove to fresh air. Obtain medical attention if symptoms occur.					
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Obtain medical attention if symptoms occur.					
Skin contact	Rinse with plenty of running water. Remove contaminated clothing and shoes. Obtain medical attention if symptoms occur.					
Eye contact	Rinse with plenty of running water. Obtain medical attention if symptoms occur.					
Note to physician						

5 Fire-fighting measures		
Extinguishing media		
Small fire		Non-combustible. Use extinguishing media suitable for surrounding materials.
Large fire		Non-combustible. Use extinguishing media suitable for surrounding materials.
Extinguishing media not to be used		
Unusual fire and explosion hazards		No specific hazard.
Hazardous thermal decomposition and combustion products		In case of fire, may produce hazardous decomposition products such as nitrogen oxides (NO, NO ₂), ammonia (NH ₃), amines, sulphur oxides (SO ₂ , SO ₃).
Special fire fighting procedures		Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Wear suitable protective clothing. Self-contained breathing apparatus.
6 Accidental release measures		
Personal precautions		Avoid creating dusty conditions and prevent wind dispersal. Use suitable protective equipment (section 8).
Environmental precautions		Prevent entry into sewers, basements or confined areas. Dyke if necessary. In case of contamination of aquatic environment, inform local authorities.
Methods for cleaning up		
Small spill and leak		Vacuum or sweep up material and place in a designated labelled waste container. Clean up affected area with a large amount of water.
Large spill and leak		Prevent entry into sewers, basements or confined areas. Dyke if necessary. Vacuum or sweep up material and place in a designated labelled waste container. Recycle, if possible. Prevent formation of dust clouds. Avoid release to the environment. This material and its container must be disposed of as hazardous waste
Remarks		
		<i>Note: see section 8 for personal protective equipment and section 13 for waste disposal.</i>
7 Handling and storage		
Handling		Use with adequate ventilation. Local exhaust ventilation should be provided. Avoid creating dusty conditions and prevent wind dispersal. Do not allow to enter drains or watercourses.
Storage		Use appropriate containment to avoid environmental contamination. Keep container tightly closed. Segregate from oxidising materials. Store away from bases, metals.
Specific use(s)		
Packaging materials		Stainless steel. Synthetic materia
		<i>Note: See section 10 for stability and reactivity</i>
8 Exposure controls / Personal protection		
Exposure limit values		
Engineering measures		None required. However, use of adequate ventilation is good industrial practice.
Hygienic measures		When using do not eat, drink or smoke. Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
Personal protection		Production scale
Respiratory system		Wear dust protection mask P2.
Skin and body		Working clothes.
Hands		Wear suitable gloves. 4-8 hours (breakthrough time): Butyl rubber. PVC.
Eyes		Safety glasses with side shields.
Environmental exposure controls		
		<i>Advice on personal protection is applicable for high exposure levels.</i>
		<i>Select proper personal protection based on a risk</i>
9 Physical and chemical properties		
Appearance		Solid. (Crystalline powder)
Color		White
Odor		Odourless.

12 Ecological information						
Ingredient name		Aquatic half-life	Photolysis	Biodegradability		
Ammonium sulphate		-	-	readily		
Ingredient name		Test	Period	Result		
Ammonium sulphate		Oncorhynchus mykiss (LC50)	96 hours	6.6 mg/l		
		Daphnia magna (LC50)	96 hours	>20 mg/l		
		Pimephales promelas (LC50)	96 hours	>20 mg/l		
		Oncorhynchus mykiss (LC50)	96 hours	36.7 mg/l		
		Oncorhynchus mykiss (LC50)	96 hours	39.2 mg/l		
Ingredient name		LogPow	Bio-concentration factor	Bioaccumulative potential		
Ammonium sulphate		-5,1	-	low		
Mobility		For data on physical state and : solubility see section 9.				
Persistence and degradability		Methods for the determination of biodegradability are not applicable to inorganic substances.				
Bioaccumulative potential						
Ecotoxicity						
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.	Fertiliser: Sulphate of ammonia 21 (+24) Raw material: Ammonium sulphate	-	-		-
ADNR Class	Not regulated.	Fertiliser: Sulphate of ammonia 21 (+24) Raw material: Ammonium sulphate	-			-
IMDG Class	Not regulated.	Fertiliser: Sulphate of ammonia 21 (+24) Raw material: Ammonium sulphate	-			-
IATA Class	Not regulated.	Fertiliser: Sulphate of ammonia 21 (+24) Raw material: Ammonium sulphate	-	-		-

15	Regulatory information	
	Responsibility of the receiver to have knowledge of national and local regulations.	
	EU regulations Hazard symbol R- and S phrases National Fire protection Association (U.S.A)	EC FERTILISER According to EU Directives 67/548/EEC and 1999/45/EC this product does not require labelling.. According to EU Directives 67/548/EEC and 1999/45/EC this product does not require labelling.. none
16	Other information	
	Risk phrases Safety phrases Symbols Storage classification Date previous SDS Modifications in this version References	- - - - 01-07-1997 lay-out, additional information in sections 11,12,14,16 WW 15261
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