

SAFETY DATA SHEET

Creation Date 11-Sep-2009	Revision Date 17-Jan-2018	Revision Number 3	
	1. Identification		
Product Name	Ammonium sulfate		
Cat No. :	A701-3; A701-50; A702-3; A702-10; A702-50 BP212R-1; S71915ACS; NC9685224	00; A938-500; BP212-212;	
CAS-No Synonyms	7783-20-2 Diammonium sulfate; Sulfuric acid, diammonium salt (Gi ACS/Laboratory/Primary Standard)	ranular/Crystalline/Certified	
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use		
Details of the supplier of the sa	fety data sheet		
Company			

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

3.	Composition	/Information o	n Ingredients
<u> </u>	oompoontion		

Component	CAS-No	Weight %
Ammonium sulfate	7783-20-2	>95

4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.
Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms and	No information available.
effects Notes to Physician 	Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available		

Flash Point	No information available
Method -	No information available

Autoignition Temperature	
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products

None known

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	NFPA Health Flammability 1 0		Instability 0	Physical hazards N/A	
		6. Accidental re	lease measures		
	Personal PrecautionsEnsure adequate ventilation. Use personal protective equipment. Avoid dust formation.Environmental PrecautionsDo not flush into surface water or sanitary sewer system.				
Methods fo Up	Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust Up formation.				
		7. Handling a	and storage		
Handling		· · ·	equipment. Ensure adequate ve gestion and inhalation. Avoid o	entilation. Avoid contact with skin, dust formation.	
Storage		Keep containers tightly close	sed in a dry, cool and well-ven	tilated place.	
	3	3. Exposure controls	/ personal protecti	on	
Exposure C	Buidelines		ain any hazardous materials w jion specific regulatory bodies.		

Engineering Measures None under normal use conditions.	
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range	Colorless Odorless No information available 5-6 (@ 20) 5% aq.sol.(20 C) 280 °C / 536 °F No information available
Odor Threshold pH Melting Point/Range	No information available 5-6 (@ 20) 5% aq.sol.(20 C) 280 °C / 536 °F
pH Melting Point/Range	5-6 (@ 20) 5% aq.sol.(20 C) 280 °C / 536 °F
Melting Point/Range	280 °C / 536 °F
0 0	
Boiling Point/Pange	No information available
Bolling Followange	
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	350 °C
Viscosity	Not applicable
Molecular Formula	H8 N2 O4 S
Molecular Weight	132.13

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products None under normal use conditions		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information

Component Informa	ation						
Component		LD50 Oral	LD50 Oral LD50 Dermal		LC50 Inhalation		
Ammonium su		2840 mg/kg (Rat	/	Not listed	No	t listed	
Toxicologically Syn	ergistic	No information av	ailable				
Products							
Delayed and immediate effects as well as chronic effects from short and long-term exposure							
Irritation	ritation May cause eye, skin, and respiratory tract irritation						
Sensitization		No information av	No information available				
Carcinogenicity		The table below in	The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Component	CAS-No	D IARC	NTP	ACGIH	OSHA	Mexico	
Ammonium sulfate	7783-20	-2 Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information av	No information available				
Reproductive Effect	Reproductive Effects No information available.						
Developmental Effe	cts	No information av	ailable.				
Teratogenicity		No information av	ailable.				
. .	STOT - single exposureNone knownSTOT - repeated exposureNone known						
Aspiration hazard		No information av	ailable				
Symptoms / effects,both acute and No information available delayed							
Endocrine Disrupto	r Informatic	n No information av	ailable				
Other Adverse Effects		The toxicological	The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ammonium sulfate	-	Cyprinus carpio: LC50: >460 mg/L/96h Brachydanio rerio: LC50: 420 mg/L/96h	-	EC50: 423 mg/L/24h LC50: 14 mg/L/48h
Persistence and Degrada	ability Persistence	is unlikely		
Bioaccumulation/ Accumulation No information		on available.		

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Ammonium sulfate	-5.1

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information				
DOT TDG IATA	Not regulated			
TDG	Not regulated			
IATA	Not regulated			
IMDG/IMO	Not regulated			
15. Regulatory information				

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Ammonium sulfate	Х	Х	-	231-984-1	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Ammonium sulfate	7783-20-2	>95	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)	Not applicable
CWA (Clean Water Act)	Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA	Not applicable
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California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations	

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ammonium sulfate	Х	-	Х	-	Х

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade	No information available		
	16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Creation Date Revision Date Print Date Revision Summary	11-Sep-2009 17-Jan-2018 17-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).		

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS