Honeywell

SULF-N® Ammonium Sulfate

000000011568

ersion 2.2	Revision Date 10/17/2014	Print Date 05/30/2015			
ECTION 1. PRODUCT AND C	DMPANY IDENTIFICATION				
Product name	: SULF-N® Ammonium Sulfate				
MSDS Number	: 000000011568				
Product Use Description	: Fertilizer				
Manufacturer or supplier's details	: Honeywell International Inc. 101 Columbia Road Morristown, NJ 07962-1057				
For more information call	: 1-877-370-7007 +1-804-541-5000 (Monday-Friday, 9:00am-5:00pm)				
In case of emergency call	 Medical: 1-800-498-5701 or +1-303 Transportation (CHEMTREC): 1-8 527-3887 				
	: : (24 hours/day, 7 days/week)				
ECTION 2. HAZARDS IDENTI	FICATION				
Emergency Overview					
Form	: granules				
Color	: colourless to brown				
Odor	: odourless				
Classification of the substance or mixture					
Not a hazardous substance or mixture.					
Precautionary statements	: Prevention: Use personal protective equipmer	nt as required.			
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Hazards not otherwise classified		Product dust may be irritating to e system.	yes, skin and respiratory
Carcinogenicity			
No component of this produce or anticipated carcinogen by		t at levels greater than or equal to RC, or OSHA.	o 0.1% is identified as a known
CTION 3. COMPOSITION/IN	FORMA	TION ON INGREDIENTS	
Chemical nature	: M	lixture	
Chemical	Name	CAS-No.	Concentration
Ammonium sulfate		7783-20-2	>98.50 %
CTION 4. FIRST AID MEASU	JRES		
Inhalation	lf b pro	emove to fresh air. If not breathing preathing is difficult, give oxygen. pvided a qualified operator is pres rritation develops and persists.	Use oxygen as required,
Skin contact	mi imi	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.	
Eye contact	for	nse immediately with plenty of wa at least 15 minutes. Get medical velops and persists.	
Ingestion	an	duce vomiting, but only if victim is ything by mouth to an unconsciou asses of water. Call a physician.	
Notes to physician			

Honeywell SAFETY DATA SHEET SULF-N® Ammonium Sulfate 000000011568 Version 2.2 Revision Date 10/17/2014 Print Date 05/30/2015 Treatment : Treat symptomatically. SECTION 5. FIREFIGHTING MEASURES : Use extinguishing measures that are appropriate to local Suitable extinguishing media circumstances and the surrounding environment. Specific hazards during : Container may rupture on heating. firefighting Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Explosive reactions with oxidising agents such as potassium chlorate and/or peroxides. In case of fire hazardous decomposition products may be produced such as: Sulphur oxides Ammonia Carbon monoxide Carbon dioxide (CO2) Special protective equipment : In the event of fire and/or explosion do not breathe fumes. for firefighters In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. **SECTION 6. ACCIDENTAL RELEASE MEASURES** : Wear personal protective equipment. Unprotected persons Personal precautions must be kept away. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Provide adequate ventilation. Avoid dust formation. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Environmental precautions Do not flush into surface water or sanitary sewer system. : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Page 3 / 10

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Methods for cleaning up	:	Use mechanical handling equipment. Clean contaminated surface thoroughly Pick up and arrange disposal without cr Use a suitable vacuum cleaner.	
CTION 7. HANDLING AND ST	ſOF	AGE	
Handling			
Handling	:	Handle with care. Wear personal protective equipment. Use only in well-ventilated areas. Avoid dust formation. Provide exhaust ventilation if dust is for Dust must be extracted directly at the p Avoid breathing dust. Avoid contact with skin, eyes and clothi	oint of origin.
Advice on protection against fire and explosion	:	Normal measures for preventive fire pro	otection.
Storage			
Requirements for storage areas and containers	:	Keep containers tightly closed in a dry, place. Containers should be protected against Containers which are opened must be of kept upright to prevent leakage. Store away from incompatible substance	falling down. carefully resealed and
Further information on storage conditions	:	Ensure adequate ventilation.	
Advice on common storage	:	Do not store together with: Oxidizing agents	
Storage temperature	:	< 280 °C (< 536 °F)	
CTION 8. EXPOSURE CONTR	ROL	S/PERSONAL PROTECTION	
Protective measures	:	Ensure that eyewash stations and safet	ty showers are close to
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		the workstation location. Avoid dust formation. Avoid breathing dust. Avoid contact with skin, eyes and cloth Wash thoroughly after handling.	ing.
Engineering measures	:	Provide exhaust ventilation if dust is fo Dust must be extracted directly at the p Apply technical measures to comply w exposure limits.	point of origin.
Eye protection	:	Do not wear contact lenses. Wear as appropriate: Safety glasses with side-shields	
Hand protection	:	Gloves Gloves must be inspected prior to use. Replace when worn.	
Skin and body protection	:	Long sleeved clothing	
Respiratory protection	:	Use NIOSH approved respiratory prote	ection.
Hygiene measures	:	Wash hands before breaks and at the Remove and wash contaminated cloth Keep working clothes separately.	
Exposure Guidelines Contains no substances with		cupational exposure limit values.	
CTION 9. PHYSICAL AND CH			
Physical state		granules	
Color		colourless to brown	
Odor		odourless	
рН		5.5	
Melting point/freezing point		Note: no data available	
Boiling point/boiling range		Note: Not applicable	
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Flash point	: Note: Not applicable	
Lower explosion limit Upper explosion limit	Note: Not applicableNote: Not applicable	
Vapor pressure	: Note: Not applicable	
Density	: 1.77 g/cm3	
Water solubility	: 410 - 750 g/l at 20 - 25 °C	
Ignition temperature	: Note: Not applicable	
Molecular weight	: 132.14 g/mol	
CTION 10. STABILITY AND	REACTIVITY	
Chemical stability	: Stable under recommended storage co	onditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not oc	cur.
Incompatible materials to avoid	 oxidising substances Zinc Copper Copper-bearing materials 	
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Hazardous decomposition products	: Sulphur oxides Ammonia Carbon dioxide (CO2) Carbon monoxide	
ECTION 11. TOXICOLOGICAL II	NFORMATION	
Acute oral toxicity	: LD50: 3,000 mg/kg Species: Rat	
Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rat	
Skin irritation	: Species: Rabbit Result: slight irritation	
Eye irritation	: Species: Rabbit Result: slight irritation	
Genotoxicity in vitro	: Note: In vitro tests did not show me	utagenic effects
ECTION 12. ECOLOGICAL INFO	PRMATION	
Ecotoxicity effects		
Toxicity to fish	: LC50: > 460 mg/l Exposure time: 96 h Species: Leuciscus idus (Golden o	rfe)
Toxicity to daphnia and other aquatic invertebrates	: LC50: 423 mg/l Exposure time: 25 h Species: Daphnia magna (Water fl	ea)
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		:	LC50: 433 mg/l Exposure time: 50 h Species: Daphnia magna (Water flea	ı)
		:	LC50: 292 mg/l Exposure time: 100 h Species: Daphnia magna (Water flea	1)
Further	information on eco	ology	1	
ECTION 13	DISPOSAL CONS		RATIONS	
Disposal	methods	:	Observe all Federal, State, and Loca regulations.	I Environmental
	TRANSPORT INF	ORM	IATION	
-511011 14.				
DOT	Not dangerous g	goods	2	
	Not dangerous o Not dangerous o	-		
DOT		joods	5	
DOT TDG	Not dangerous g	joods joods	5	
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: On the inventory, or in compliance	e with the inventory	
: On the inventory, or in compliance	e with the inventory	
: On the inventory, or in compliance	e with the inventory	
: On the inventory, or in compliance	e with the inventory	
ation		
: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.		
: Ammonium sulfate	7783-20-2	
: Acute Health Hazard		
: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.		
: Ammonium sulfate	7783-20-2	
: Ammonium sulfate	7783-20-2	
: Not Rated		
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	 On the inventory, or in compliance ation No chemicals in this material are requirements of SARA Title III, See Ammonium sulfate Acute Health Hazard This product does not contain any California to cause cancer, birth or reproductive harm. Ammonium sulfate Ammonium sulfate Ammonium sulfate Mamonium sulfate Ammonium sulfate Ammonium sulfate 	

SAFETY DATA SHEET Honeywell SULF-N® Ammonium Sulfate 000000011568 Version 2.2 Revision Date 10/17/2014 Print Date 05/30/2015 This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. **SECTION 16. OTHER INFORMATION** HMIS III NFPA Health hazard : 1 1 Flammability : 0 0 Physical Hazard : 0 Instability 0 2 Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system. **Further information** 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, Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties. Changes since the last version are highlighted in the margin. This version replaces all previous versions. Previous Issue Date: 08/18/2011 Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group Page 10 / 10