Honeywell

SULF-N® Ammonium Sulfate

/ersion 2.3		Revision Date 09/28/2015	Print Date 07/26/201
ECTION 1. PRODUCT AND CO	MP		
Product name	:	SULF-N® Ammonium Sulfate	
Number	:	000000011568	
Product Use Description	:	Fertilizer	
Manufacturer or supplier's details	:	Honeywell International Inc. 115 Tabor Road Morris Plains, NJ 07950-2546	
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 +1-303-389- Transportation (CHEMTREC): 1-800-42 527-3887	
	:	(24 hours/day, 7 days/week)	
ECTION 2. HAZARDS IDENTIF	ICA	TION	
ECTION 2. HAZARDS IDENTIF	ICA	TION	
		TION : granules	
Emergency Overview			
Emergency Overview Form		: granules	
Emergency Overview Form Color		: granules : colourless to brown : odourless	
Emergency Overview Form Color Odor	nce	: granules : colourless to brown : odourless • or mixture	
Emergency Overview Form Color Odor Classification of the substa	nce	: granules : colourless to brown : odourless • or mixture	equired.
Emergency Overview Form Color Odor Classification of the substa Not a hazardous substance of	nce	: granules : colourless to brown : odourless • or mixture hixture. : Prevention:	
Emergency Overview Form Color Odor Classification of the substat Not a hazardous substance of Precautionary statements Hazards not otherwise	nce	 granules colourless to brown odourless or mixture ixture. Prevention: Use personal protective equipment as r Product dust may be irritating to eyes, s 	

SAFETYDATA	SHEET			Honeywell
SULF-N® Amm	onium Su	lfata		
000000011568	onium Su	male		
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Carcinogenicity		Revision Da	le 09/26/2015	Plint Date 07/20/2010
No component of t or anticipated carc				1% is identified as a known
SECTION 3. COMPOS	SITION/INFORI	MATION ON IN	GREDIENTS	
Chemical nature		: Mixture		
	Chemical Nam	ne	CAS-No.	Concentration
Ammonium sulfate	e		7783-20-2	>98.50 %
SECTION 4. FIRST AI	D MEASURES	6		
Inhalation	:	If breathing is of provided a qua	th air. If not breathing, gi difficult, give oxygen. Use lified operator is present lops and persists.	e oxygen as required,
Skin contact	:	minutes. Take immediately. V	diately with plenty of wa off contaminated clothing Vash contaminated clothi on if irritation develops a	g and shoes ng before re-use. Get
Eye contact	:		tely with plenty of water, minutes. Get medical atte persists.	
Ingestion	:	anything by mo	g, but only if victim is fully buth to an unconscious p er. Call a physician.	
Notes to physicia	an			
Treatment	:	Treat symptom	atically.	
SECTION 5. FIREFIGI	HTING MEASU	JRES		
Suitable extinguis	hing media		hing measures that are a s and the surrounding en	
Specific hazards of firefighting	during	Cool closed c	y rupture on heating. ontainers exposed to fire 2/9	with water spray.
		rage	219	

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	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 for firefighters	: In the event of fire and/or explosion do not breathe fumes. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
TION 6. ACCIDENTAL RELE	EASE MEASURES : Wear personal protective equipment. Unprotected persons
I I	
	 Avoid contact with skin, eyes and clothing.
Environmental 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.
	 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. On not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.
Environmental precautions Methods for cleaning up	 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. 1 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. 1 Use mechanical handling equipment. Clean contaminated surface thoroughly. Pick up and arrange disposal without creating dust. Use a suitable vacuum cleaner.
Environmental precautions Methods for cleaning up	 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. 1 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. 1 Use mechanical handling equipment. Clean contaminated surface thoroughly. Pick up and arrange disposal without creating dust. Use a suitable vacuum cleaner.

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		Avoid dust formation. Not expected to form explosive dust- Provide exhaust ventilation if dust is Dust must be extracted directly at the Avoid breathing dust. Avoid contact with skin, eyes and clo	air mixtures. formed. e point of origin.
Advice on protection against fire and explosion	:	Normal measures for preventive fire	protection.
Storage			
Requirements for storage areas and containers	:	Store in a dry place. Store in a well-ventilated place. Containers which are opened must b kept upright to prevent leakage. Protect from physical damage. Store away from incompatible substa Do not store together with: Strong oxidizing agents	
ECTION 8. EXPOSURE CON		S/PERSONAL PROTECTION Ensure that eyewash stations and sa the workstation location. Avoid dust formation. Avoid breathing dust. Avoid contact with skin, eyes and clo Wash thoroughly after handling.	
Engineering measures	:	Provide exhaust ventilation if dust is Dust must be extracted directly at the Apply technical measures to comply exposure limits.	e 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 us Replace when worn.	e.
	:	Long sleeved clothing	
Skin and body protection			
Skin and body protection Respiratory protection	:	Use NIOSH approved respiratory pro	tection.

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Exposure Guidelines

Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: granules
Color	: colourless to brown
Odor	: odourless
рН	: 5.5
Melting point/range	: Note: no data available
Boiling point/boiling range	: Note: Not applicable
Flash point	: Note: Not applicable
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: 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
Decomposition temperature	: 280 °C
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Molecular weight	: 132.14 g/mol	
ECTION 10. STABILITY AND F	REACTIVITY	
Chemical stability	: Stable under recommended storage c	onditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not or	ccur.
Incompatible materials to avoid	: Strong oxidizing agents Zinc	
avoiu	Copper	
	Copper-bearing materials	
Hazardous decomposition	: Sulphur oxides	
products	Ammonia Carbon dioxide (CO2)	
	Carbon monoxide	
Acute oral toxicity	: LD50: 3,000 mg/kg Species: Rat	
Acute oral toxicity Acute dermal toxicity		
	Species: Rat : LD50: > 2,000 mg/kg Species: Rat	
Acute dermal toxicity	Species: Rat : LD50: > 2,000 mg/kg	
Acute dermal toxicity	 Species: Rat LD50: > 2,000 mg/kg Species: Rat Species: Rabbit Result: slight irritation Species: Rabbit 	
Acute dermal toxicity Skin irritation	 Species: Rat LD50: > 2,000 mg/kg Species: Rat Species: Rabbit Result: slight irritation 	
Acute dermal toxicity Skin irritation	 Species: Rat LD50: > 2,000 mg/kg Species: Rat Species: Rabbit Result: slight irritation Species: Rabbit 	genic effects
Acute dermal toxicity Skin irritation Eye irritation	 Species: Rat LD50: > 2,000 mg/kg Species: Rat Species: Rabbit Result: slight irritation Species: Rabbit Result: slight irritation 	genic effects
Acute dermal toxicity Skin irritation Eye irritation	 Species: Rat LD50: > 2,000 mg/kg Species: Rat Species: Rabbit Result: slight irritation Species: Rabbit Result: slight irritation Species: Rabbit Result: slight irritation Note: In vitro tests did not show mutage 	genic effects
Acute dermal toxicity Skin irritation Eye irritation Genotoxicity in vitro	 Species: Rat LD50: > 2,000 mg/kg Species: Rat Species: Rabbit Result: slight irritation Species: Rabbit Result: slight irritation Species: Rabbit Result: slight irritation Note: In vitro tests did not show mutage 	genic effects

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Version 2.3 Ecotoxic		Revision Date 09/28/2015	
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	city effects		
Toxicity 1	to fish	: LC50: > 460 mg/l Exposure time: 96 h Species: Leuciscus idus (Golden orfe)	
	to daphnia and other nvertebrates	: LC50: 423 mg/l Exposure time: 25 h Species: Daphnia magna (Water flea)	
		: LC50: 433 mg/l Exposure time: 50 h Species: Daphnia magna (Water flea)	
		: LC50: 292 mg/l Exposure time: 100 h Species: Daphnia magna (Water flea)	
Further i	information on ecolo	ogy	
SECTION 13.	DISPOSAL CONSID	ERATIONS	
Disposal	methods	: Observe all Federal, State, and Local Er regulations.	nvironmental
SECTION 14.	TRANSPORT INFO	RMATION	
SECTION 14. DOT	TRANSPORT INFO		
		ods	
DOT	Not dangerous goo	ods	
DOT TDG	Not dangerous goo	ods ods	
DOT TDG IATA IMDG	Not dangerous goo Not dangerous goo Not dangerous goo	ods ods ods	
DOT TDG IATA IMDG	Not dangerous god Not dangerous god Not dangerous god Not dangerous god	ods ods ods	
DOT TDG IATA IMDG SECTION 15. Inventor	Not dangerous goo Not dangerous goo Not dangerous goo Not dangerous goo . REGULATORY INFO	ods ods ods	
DOT TDG IATA IMDG SECTION 15. Inventor US. Toxi Control A Australia	Not dangerous goo Not dangerous goo Not dangerous goo Not dangerous goo . REGULATORY INFO	ods ods ods ods DRMATION	e inventory

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Assessment) Act			
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	All componen	ts of this product are on t	the Canadian DSL.
Japan. Kashin-Hou Law List	On the invento	ory, or in compliance with	n the inventory
Korea. Toxic Chemical Control Law (TCCL) List	On the invento	ory, or in compliance with	n the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	On the invento	ory, or in compliance with	n the inventory
China. Inventory of Existing Chemical Substances	On the invento	ory, or in compliance with	n the inventory
National regulatory information	on		
SARA 302 Components		in this material are subje of SARA Title III, Section	
SARA 313 Components	Ammonium s	ulfate 7	783-20-2
SARA 311/312 Hazards	Acute Health	Hazard	
California Prop. 65		ause cancer, birth defect	micals known to State of s, or any other
Massachusetts RTK	Ammonium si	ulfate 7	783-20-2
Pennsylvania RTK	Ammonium s	ulfate 7	783-20-2
WHMIS Classification		nas been classified accor nd the MSDS contains all	ding to the hazard criteria of the information
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	required by the CPR.	

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	1
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

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.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group