# Honeywell

## **SULF-N® Ammonium Sulfate**

## 000000011568

Version 2.4 Revision Date 09/28/2015 Print Date 10/26/2015

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SULF-N® Ammonium Sulfate

Number : 00000011568

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 +1-303-389-1414

Transportation (CHEMTREC): 1-800-424-9300 or +1-703-

527-3887

:

(24 hours/day, 7 days/week)

### **SECTION 2. HAZARDS IDENTIFICATION**

### **Emergency Overview**

Form : granules

Color : colourless to brown

Odor : odourless

Hazard Summary : Product dust may be irritating to eyes, skin and respiratory

system. Vapour during processing may be irritating to the respiratory tract and to the eyes. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Avoid dust formation.

**Potential Health Effects** 

Skin : May irritate skin.

Prolonged or repeated contact may dry skin and cause

irritation.

Eyes : May cause mechanical irritation.

Ingestion : Ingestion may cause gastrointestinal irritation, nausea,

Page 1 / 9



## **SULF-N® Ammonium Sulfate**

## 000000011568

Version 2.4 Revision Date 09/28/2015 Print Date 10/26/2015

vomiting and diarrhea.

Inhalation : Product dust may be irritating to eyes, skin and respiratory

system.

Chronic Exposure : None known.

Aggravated Medical

Condition

: None known.

### Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Chemical Name	CAS-No.	Concentration
Ammonium sulfate	7783-20-2	>98.50 %

### **SECTION 4. FIRST AID MEASURES**

Inhalation : Remove to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Get medical attention

if irritation develops and persists.

Skin contact : 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 : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Get medical attention if irritation

develops and persists.

Ingestion : Induce vomiting, but only if victim is fully conscious. Never give

anything by mouth to an unconscious person. Drink 1 or 2

glasses of water. Call a physician.

Notes to physician

Page 2 / 9



## **SULF-N® Ammonium Sulfate**

## 000000011568

Version 2.4 Revision Date 09/28/2015 Print Date 10/26/2015

Treatment : Treat symptomatically.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific hazards during

firefighting

: Container may rupture on heating.

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

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.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear personal protective equipment. Unprotected persons

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.

Methods for cleaning up : Use mechanical handling equipment.

Clean contaminated surface thoroughly.

Pick up and arrange disposal without creating dust.

Page 3 / 9

# Honeywell

## **SULF-N® Ammonium Sulfate**

## 000000011568

Version 2.4 Revision Date 09/28/2015 Print Date 10/26/2015

Use a suitable vacuum cleaner.

### **SECTION 7. HANDLING AND STORAGE**

### Handling

Handling : Handle with care.

Wear personal protective equipment. Use only in well-ventilated areas.

Avoid dust formation.

Not expected to form explosive dust-air mixtures. Provide exhaust ventilation if dust is formed. Dust must be extracted directly at the point of origin.

Avoid breathing dust.

Avoid contact with skin, eyes and clothing.

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 be carefully resealed and

kept upright to prevent leakage. Protect from physical damage.

Store away from incompatible substances.

Do not store together with: Strong oxidizing agents

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location. Avoid dust formation. Avoid breathing dust.

Avoid contact with skin, eyes and clothing.

Wash thoroughly after handling.

Engineering measures : Provide exhaust ventilation if dust is formed.

Dust must be extracted directly at the point of origin.

Apply technical measures to comply with the occupational

exposure limits.

Eye protection : Do not wear contact lenses.

Wear as appropriate:

Safety glasses with side-shields

Page 4 / 9

# Honeywell

## **SULF-N® Ammonium Sulfate**

## 000000011568

Version 2.4 Revision Date 09/28/2015 Print Date 10/26/2015

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 protection.

Hygiene measures : Wash hands before breaks and at the end of workday.

Remove and wash contaminated clothing before re-use.

Keep working clothes separately.

**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

pH : 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

Page 5 / 9

# Honeywell

## **SULF-N® Ammonium Sulfate**

# 00000011568

Version 2.4 Revision Date 09/28/2015 Print Date 10/26/2015

Ignition temperature : Note: Not applicable

Decomposition temperature : 280 °C

Molecular weight : 132.14 g/mol

### **SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

Incompatible materials to

avoid

: Strong oxidizing agents

Zinc Copper

Copper-bearing materials

Hazardous decomposition

products

: Sulphur oxides

Ammonia

Carbon dioxide (CO2) Carbon monoxide

## **SECTION 11. TOXICOLOGICAL INFORMATION**

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

Page 6 / 9

# Honeywell

## **SULF-N® Ammonium Sulfate**

# 00000011568

Version 2.4 Revision Date 09/28/2015 Print Date 10/26/2015

Genotoxicity in vitro : Note: In vitro tests did not show mutagenic effects

#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity effects**

Toxicity to fish : LC50: > 460 mg/l

Exposure time: 96 h

Species: Leuciscus idus (Golden orfe)

Toxicity to daphnia and other

aquatic invertebrates

: 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 information on ecology

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental

regulations.

### SECTION 14. TRANSPORT INFORMATION

**DOT** Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

**IMDG** Not dangerous goods

# Honeywell

## **SULF-N® Ammonium Sulfate**

## 000000011568

Version 2.4 Revision Date 09/28/2015 Print Date 10/26/2015

### SECTION 15. REGULATORY INFORMATION

**Inventories** 

US. Toxic Substances

Control Act

: On TSCA Inventory

Australia, Industrial

Chemical (Notification and

Assessment) Act

: On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)

: All components of this product are on the Canadian DSL.

Japan. Kashin-Hou Law

List

: On the inventory, or in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control

: On the inventory, or in compliance with the inventory

Act

Chemical Substances

China. Inventory of Existing : On the inventory, or in compliance with the inventory

### National regulatory information

**WHMIS Classification** : Not Rated

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.

**WHMIS** 

Components : Ammonium sulfate 7783-20-2

**NPRI** 

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.



## **SULF-N® Ammonium Sulfate**

## 000000011568

Version 2.4 Revision Date 09/28/2015 Print Date 10/26/2015

### **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.

Previous Issue Date: 09/28/2015

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group