

**AMMONIUM SULFATE-GRAN-TREATED****00000011568**

Version 2.3

Revision Date 09/28/2015

Print Date 02/26/2016

**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

**Classification of the substance or mixture**

Not a hazardous substance or mixture.

Precautionary statements : **Prevention:**  
Use personal protective equipment as required.

Hazards not otherwise classified : Product dust may be irritating to eyes, skin and respiratory system.

**Carcinogenicity**

**AMMONIUM SULFATE-GRAN-TREATED****00000011568**

Version 2.3

Revision Date 09/28/2015

Print Date 02/26/2016

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**

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

**AMMONIUM SULFATE-GRAN-TREATED****00000011568**

Version 2.3

Revision Date 09/28/2015

Print Date 02/26/2016

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 (CO<sub>2</sub>)

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.  
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.

## AMMONIUM SULFATE-GRAN-TREATED

00000011568

Version 2.3

Revision Date 09/28/2015

Print Date 02/26/2016

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

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.

## AMMONIUM SULFATE-GRAN-TREATED

00000011568

Version 2.3

Revision Date 09/28/2015

Print Date 02/26/2016

**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/cm <sup>3</sup>      |
| Water solubility            | : 410 - 750 g/l at 20 - 25 °C |
| Ignition temperature        | : Note: Not applicable        |
| Decomposition temperature   | : 280 °C                      |
| Molecular weight            | : 132.14 g/mol                |

## AMMONIUM SULFATE-GRAN-TREATED

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Version 2.3

Revision Date 09/28/2015

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## 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<br>Zinc<br>Copper<br>Copper-bearing materials             |
| Hazardous decomposition products   | : Sulphur oxides<br>Ammonia<br>Carbon dioxide (CO <sub>2</sub> )<br>Carbon monoxide |

## SECTION 11. TOXICOLOGICAL INFORMATION

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Acute oral toxicity   | : LD50: 3,000 mg/kg<br>Species: Rat                   |
| Acute dermal toxicity | : LD50: > 2,000 mg/kg<br>Species: Rat                 |
| Skin irritation       | : Species: Rabbit<br>Result: slight irritation        |
| Eye irritation        | : Species: Rabbit<br>Result: slight irritation        |
| Genotoxicity in vitro | : Note: In vitro tests did not show mutagenic effects |

## SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

## AMMONIUM SULFATE-GRAN-TREATED

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Version 2.3

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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

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

## AMMONIUM SULFATE-GRAN-TREATED

00000011568

Version 2.3

Revision Date 09/28/2015

Print Date 02/26/2016

Environmental Protection  
Act (CEPA). Domestic  
Substances List (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  
Act : On the inventory, or in compliance with the inventory

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

**National regulatory information**

**SARA 302 Components** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** :  
: Ammonium sulfate 7783-20-2

**SARA 311/312 Hazards** : Acute Health Hazard

**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Massachusetts RTK** : Ammonium sulfate 7783-20-2

**Pennsylvania RTK** : Ammonium sulfate 7783-20-2

**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.



**AMMONIUM SULFATE-GRAN-TREATED****00000011568**

Version 2.3

Revision Date 09/28/2015

Print Date 02/26/2016

**SECTION 16. OTHER INFORMATION**

|                 | <b>HMIS III</b> | <b>NFPA</b> |
|-----------------|-----------------|-------------|
| 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