

# NOTICE OF LANDSCAPE APPLICATION

Date of Application: May 1, 2024

Location: Spotted Leaf Park

**Reason for Application:** Fertilize bermuda turf to provide uniform growth with extended nitrogen feeding.

Product Manufacturer Name: Yara Ammonium Sulfate 21-0-0.

-Active ingredients: N/A

-Precautionary statement: No known significant effects or critical hazards.

\*See attached label and SDS sheet \*Dates are subject to change due to weather

# **AMMONIUM SULFATE 21-0-0**

THE VIKING SHIP® BRAND IS A REGISTERED TRADEMARK OF YARA INTERNATIONAL ASA



# AMMONIUM SULFATE

**AMMONIUM SULFATE 21-0-0** 

ARA

# 21-0-0

Guaranteed by Yara North America, Inc. 100 North Tampa Street Suite 3200 Tampa, FL 33602

For Yara International ASA, Oslo, Norway

# 50 LBS/22.7 KG

# **AMMONIUM SULFATE 21-0-0**

#### 50 LBS. NET WT. (22.7 kg)



21.0% Ammoniacal Nitrogen

Sulfur (S)..... ......24.0% 24.0% Combined Sulfur (S)

21-0-0

VIKING SHIP<sup>®</sup> BRAND AMMONIUM SULFATE

Derived from Ammonium Sulfate

Use in accordance with recommendations of a qualified individual or institution, such as, but not limited to, a certified crop advisor, agronomist, university crop extension publication, or apply according to recommendations in your approved nutrient management plan.

"THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS WITH RESPECT TO THESE PRODUCTS, NOR ARE THERE ANY EXPRESSED WARRANTIES OTHER THAN AS MAY BE CONTAINED IN ANY GUARANTEED ANALYSIS THAT MAY ACCOMPANY THE PRODUCT. BUYER ASSUMES ALL RISK TO PERSON AND PROPERTY IN THE USE. HANDLING OR STORAGE OF THE PRODUCT. SELLER'S LIABILITY IS LIMITED TO THE FULL AMOUNT OF THE PURCHASE PRICE, WITH THE WAIVER OF ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES BEING AN EXPRESSED PROVISION OF THIS SALE."

#### FIRST AID

FIRST AID CAUTION: MINERAL FERTILIZERS ARE INORGANIC SALTS OR MIXTURES OF SALTS. BY THEIR NATURE, FERTILIZER SALTS MAY BE IRRITATING TO THE SKIN AND EVES. PRECAUTIONS SHOULD BE TAKEN TO PREVENT EVE CONTACT AND MINIMIZE SKIN CONTACT. FERTILIZER DUSTS ARE CONSIDERED NUISANCE-TYPE DUSTS. INHALATION OF MUISANCE DUSTS MAY INDUCE OR AGGRAVATE RESPIRATORY DISCOMFORT. APPROVED DUST RESPIRATORS SHOULD BE USED WHEN FERTILIZERS IN ENCLOSED AREAS, ADEQUATE VENTILATION SHOULD BE EMPLOYED TO MOVE DUST. SKIN: FLUSH WITH WATER AND WASH THOROUGHLY WITH SOAP AND WATER, REPEAT AS NECESSARY. EVESS: FLOOD WITH CLEAN WATER IMMEDIATELY FOR AT LEAST IS MINUTES, REPEAT AS NECESSARY. INGESTION: GIVE 2-3 GLASSES OF WATER AND INDUCE VOMITING. CONTACT A PHYSICIAN. IN ALL CASES OF DISCOMFORT DUE TO EXPOSURE, SEEK MEDICAL ATTENTION.

HANDLE THIS PRODUCT PROPERLY. TO ASSURE OPTIMUM QUALITY AND PERFORMANCE: USE CLEAN, DRY AND WELL MAINTAINED EQUIPMENT.



Information regarding the contents and levels of metals in this product is available on the internet at http://www.aapfco.org/metals.htm

Warning: This product contains a chemical (or chemicals) known to the State of California to cause cancer and birth defects or other reproductive harm.



Yara offers a wide spectrum of fertilizer products. For higher quality, yield and profits, use Yara.





NK/NPKs



Also available from Yara Potassium Sulfate Slow Release Micronutrients

Questions/ Information

**Customer Service:** 800-234-9376



Visit our website www.yara.us



Conforms: GHS (rev 3)(2009) (This Safety Data Sheet conforms to the requirements of the Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012.) - United States

Date of issue/ Date of revision : 12/04/2014 Date of previous issue Version

: 12/16/2013 : 1.1



# SAFETY DATA SHEET

#### Ammonium Sulfate 21-0-0

| Section 1. Identifica  | tion   |
|--|--|
| Product name<br>Other means of identification<br>Product type<br>Product code  | <ul> <li>Ammonium Sulfate 21-0-0</li> <li>Ammonium Sulphate</li> <li>Solid (crystalline)</li> <li>PA182U</li> </ul>  |
| <u>Uses</u><br>Area of application<br>Material uses  | <ul><li>Professional applications</li><li>Fertilizers.</li></ul>   |
| <u>Supplier</u><br>Supplier's details  | : Yara North America, Inc.   |
| <u>Address</u><br>Street<br>Postal code<br>City<br>Country   | <ul> <li>100 North Tampa Street, Suite 3200</li> <li>33602</li> <li>TAMPA</li> <li>United States</li> </ul>  |
| Telephone number<br>Fax no.<br>e-mail address of person<br>responsible for this SDS<br>Emergency telephone number<br>(with hours of operation) | <ul> <li>+1 813 222 5700</li> <li>+1 813 875 5735</li> <li>yna-hesq@yara.com</li> <li>US: Chemtrec 24-hours Emergency Response: 1-800-424-<br/>9300</li> <li>Canada: 24 Hour Emergency Service, (Canutec 613-996-<br/>6666)</li> </ul> |
| National advisory body/Poison (  | Center   |
| Name<br>Telephone number   | <ul> <li>The National Poisons Emergency number</li> <li>1 800 222 1222</li> </ul>  |
| Section 2. Hazards i   | dentification  |
| OSHA/HCS status  | : This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  |
| Classification and labelling have<br>of GHS and the intended use.  | e been performed following the guidelines and recommendation   |
| Classification of the substance or mixture   | : Not classified.  |

| GHS label elements                  |   |   |
|-------------------------------------|---|---|
| Signal word                         | 1 | No signal word.   |
| Hazard statements                   | : | Not applicable.   |
| Precautionary statements            |   |   |
| General                             | : | Not applicable.   |
| Hazards not otherwise<br>classified | : | May be harmful if swallowed. Product forms slippery surface when combined with water. |

### Section 3. Composition/information on ingredients

| Substance/mixture             | : | Substance         |
|-------------------------------|---|-------------------|
| CAS number/other identifiers  |   |                   |
| Other means of identification | 1 | Ammonium Sulphate |
| CAS number                    | : | 7783-20-2         |

| Product / ingredient name         | CAS number     | %           |
|-----------------------------------|----------------|-------------|
| Sulfuric acid ammonium salt (1:2) | CAS: 7783-20-2 | >=80 - <100 |
|                                   |                |             |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

| Eye contact  | : Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.   |
|--------------|--|
| Inhalation   | <ul> <li>If inhaled, remove to fresh air. In case of inhalation of<br/>decomposition products in a fire, symptoms may be delayed.<br/>The exposed person may need to be kept under medical<br/>surveillance for 48 hours.</li> </ul>   |
| Skin contact | : Wash with soap and water. Get medical attention if irritation develops.  |
| Ingestion    | : Wash out mouth with water. If material has been swallowed<br>and the exposed person is conscious, give small quantities of<br>water to drink. Do not induce vomiting unless directed to do so<br>by medical personnel. Get medical attention if adverse health<br>effects persist or are severe. |

| Eye contact<br>Inhalation | <ul> <li>No known significant effects or critical hazards.</li> <li>Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</li> </ul> |
|---------------------------|---|
| Skin contact<br>Ingestion | <ul><li>No known significant effects or critical hazards.</li><li>No known significant effects or critical hazards.</li></ul>   |

| Over-exposure signs/symptoms                      | 5    |   |
|---|------|---|
| Eye contact                                       | :    | No specific data.   |
| Inhalation  | :    | No specific data.   |
| Skin contact                                      | :    | No specific data.   |
| Ingestion   | :    | No specific data.   |
| Indication of immediate medical                   | atte | ntion and special treatment needed, if necessary  |
| Notes to physician                                | :    | Treat symptomatically. Contact poison treatment specialist<br>immediately if large quantities have been ingested or inhaled.<br>In case of inhalation of decomposition products in a fire,<br>symptoms may be delayed. The exposed person may need to<br>be kept under medical surveillance for 48 hours. |
| Specific treatments<br>Protection of first-aiders | :    | No specific treatment.<br>No action shall be taken involving any personal risk or without<br>suitable training.   |

See toxicological information (section 11)

## Section 5. Fire-fighting measures

#### **Extinguishing media**

| Example of the second   |   |  |
|---|---|--|
| Suitable extinguishing media<br>Unsuitable extinguishing<br>media | : | Use an extinguishing agent suitable for the surrounding fire.<br>None identified.  |
| Specific hazards arising from the chemical                        | : | No specific fire or explosion hazard.  |
| Hazardous thermal<br>decomposition products                       | : | Decomposition products may include the following materials:<br>nitrogen oxides<br>sulfur oxides<br>Avoid breathing dusts, vapors or fumes from burning<br>materials.<br>In case of inhalation of decomposition products in a fire,<br>symptoms may be delayed. |
| Special protective actions for<br>fire-fighters                   | : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.  |
| Special protective equipment<br>for fire-fighters                 | : | Fire-fighters should wear appropriate protective equipment<br>and self-contained breathing apparatus (SCBA) with a full<br>face-piece operated in positive pressure mode.  |
| Remark<br>Remark  | : | Non-flammable.<br>None.  |

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel<br>For emergency responders | <ul> <li>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</li> <li>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable</li> </ul> |
|---|--|
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| Personal precautions,<br>protective equipment and<br>emergency procedures | :   | materials. See also the information in "For non-emergency<br>personnel".<br>No action shall be taken involving any personal risk or without<br>suitable training. Evacuate surrounding areas. Keep<br>unnecessary and unprotected personnel from entering. Do not<br>touch or walk through spilled material. Put on appropriate<br>personal protective equipment (see Section 8). |
|---|-----|---|
| Environmental precautions   | :   | Avoid dispersal of spilled material and runoff and contact with<br>soil, waterways, drains and sewers. Inform the relevant<br>authorities if the product has caused environmental pollution<br>(sewers, waterways, soil or air).  |
| Methods and material for containm   | ner | nt and cleaning up  |
| Small spill   | :   | Move containers from spill area. Vacuum or sweep up material<br>and place in a designated, labeled waste container. Dispose of<br>via a licensed waste disposal contractor.   |
| Large spill   | :   | Move containers from spill area. Prevent entry into sewers,<br>water courses, basements or confined areas. Vacuum or<br>sweep up material and place in a designated, labeled waste<br>container. Dispose of via a licensed waste disposal contractor.<br>Note: see section 1 for emergency contact information and<br>section 13 for waste disposal.                              |

# Section 7. Handling and storage

#### Precautions for safe handling

| Precautions for safe handling<br>Protective measures            | : | Eating, drinking and smoking should be prohibited in areas<br>where this material is handled, stored and processed.<br>Workers should wash hands and face before eating, drinking<br>and smoking. Remove contaminated clothing and protective<br>equipment before entering eating areas. See also Section 8<br>for additional information on hygiene measures.<br>Put on appropriate personal protective equipment (see<br>Section 8).  |
|---|---|---|
| Advice on general<br>occupational hygiene                       | : | Eating, drinking and smoking should be prohibited in areas<br>where this material is handled, stored and processed.<br>Workers should wash hands and face before eating, drinking<br>and smoking. Remove contaminated clothing and protective<br>equipment before entering eating areas. See also Section 8<br>for additional information on hygiene measures.  |
| Conditions for safe storage,<br>including any incompatibilities | : | Store in accordance with local regulations. Store in original<br>container protected from direct sunlight in a dry, cool and well-<br>ventilated area, away from incompatible materials (see<br>section 10) and food and drink. Keep container tightly closed<br>and sealed until ready for use. Containers that have been<br>opened must be carefully resealed and kept upright to prevent<br>leakage. Do not store in unlabeled containers. Use<br>appropriate containment to avoid environmental<br>contamination. |

# Section 8. Exposure controls/personal protection

#### Control parameters

**Occupational exposure limits** 

None.

| Appropriate engineering<br>controls<br>Environmental exposure<br>controls | : | Good general ventilation should be sufficient to control worker<br>exposure to airborne contaminants.<br>Emissions from ventilation or work process equipment should<br>be checked to ensure they comply with the requirements of<br>environmental protection legislation. In some cases, fume<br>scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to<br>acceptable levels. |
|---|---|--|
| Individual protection measures  |   |  |
| Hygiene measures  | : | Wash hands, forearms and face thoroughly after handling<br>chemical products, before eating, smoking and using the<br>lavatory and at the end of the working period. Wash<br>contaminated clothing before reusing. A washing facility or<br>water for eye and skin cleaning purposes should be present.  |
| Eye/face protection   | : | Safety eyewear complying with an approved standard should<br>be used when a risk assessment indicates this is necessary to<br>avoid exposure to liquid splashes, mists, gases or dusts.  |
| Skin protection   |   |  |
| Hand protection   | : | Chemical-resistant, impervious gloves complying with an<br>approved standard should be worn at all times when handling<br>chemical products if a risk assessment indicates this is<br>necessary.   |
| Body protection   | : | Personal protective equipment for the body should be selected based on the task being performed and the risks involved.  |
| Other skin protection<br>Respiratory protection                           | : | Appropriate footwear and any additional skin protection<br>measures should be selected based on the task being<br>performed and the risks involved and should be approved by a<br>specialist before handling this product.<br>Use a properly fitted, particulate filter respirator complying with  |
|   |   | an approved standard if a risk assessment indicates this is<br>necessary. Respirator selection must be based on known or<br>anticipated exposure levels, the hazards of the product and<br>the safe working limits of the selected respirator.   |

# Section 9. Physical and chemical properties

| <u>Appearance</u><br>Physical state<br>Color<br>Odor<br>Odor threshold<br>pH                             | : | Solid [crystalline]<br>White.<br>Odorless.<br>Not determined.<br>5 - 6 [Conc.: 100 g/l] @ 25 °C (77.00 °F) |    |
|--|---|--|----|
| Melting/freezing point   | : | Decomposition temperature: > 350 °C (662.00 °F   | -) |
| Boiling/condensation point<br>Sublimation temperature<br>Flash point<br>Evaporation rate<br>Flammability | : | Not determined.<br>Not determined.<br>Not determined.<br>Not determined.<br>Non-flammable.                 |    |
| Lower and upper explosive (flammable) limits   | : | Lower: Not determined.<br>Upper: Not determined.   |    |
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| Vapor pressure   | : | < 0.000001 hPa   |
|--|---|--|
| Relative density                                       | : | 1.77 @ 25 °C (77.00 °F)                                |
| Solubility<br>Solubility in water                      | : | Not determined.<br>764 g/l                             |
| Partition coefficient: n-<br>octanol/water             | : | Not determined.  |
| Auto-ignition temperature<br>Decomposition temperature | : | Not determined.<br>> 350 °C (662.00 °F)                |
| Viscosity  | ÷ | Dynamic: Not determined.<br>Kinematic: Not determined. |
| Explosive properties<br>Oxidizing properties           |   | None.<br>None.   |

## Section 10. Stability and reactivity

| Reactivity                         | : | No specific test data related to reactivity available for this product or its ingredients.           |
|------------------------------------|---|--|
| Chemical stability                 | : | The product is stable.   |
| Possibility of hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| Conditions to avoid                | : | Avoid contamination by any source including metals, dust and organic materials.                      |
| Incompatible materials             | : | No specific data.  |
| Hazardous decomposition products   | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

# Section 11. Toxicological information

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#### Information on toxicological effects

| Acute toxicity                  |                    |         |                           |          |            |
|---------------------------------|--------------------|---------|---------------------------|----------|------------|
| Product /<br>ingredient<br>name | Result             | Species | Dose                      | Exposure | References |
| Sulfuric acid am                | monium salt (1:2)  |         |                           |          |            |
|                                 | LD50 Oral          | Rat     | 4,250 mg/kg<br>OECD 401   | -        | IUCLID 5   |
|                                 | LC50<br>Inhalation | Rat     | 1 mg/l                    | 8 h      | IUCLID 5   |
|                                 | LD50 Dermal        | Rat     | > 2,000 mg/kg<br>OECD 434 | -        | IUCLID 5   |

**Conclusion/Summary** 

May be harmful if swallowed.

Irritation/Corrosion

#### Conclusion/Summary

Skin

No known significant effects or critical hazards.

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| Eyes                                      | : | No known significant effects or critical hazards.  |
|---|---|--|
| Respiratory                               | : | No known significant effects or critical hazards.  |
| Sensitization                             |   |  |
| Conclusion/Summary<br>Skin<br>Respiratory | : | No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |

#### Mutagenicity

#### Conclusion/Summary

: No known significant effects or critical hazards.

**Carcinogenicity** 

| Product / ingredient name            | Result                     | Species | Dose                | Exposure | References |
|--------------------------------------|----------------------------|---------|---------------------|----------|------------|
| Sulfuric acid<br>ammonium salt (1:2) | Negative -<br>Oral - NOAEL | Rat     | 284 mg/kg<br>bw/day | -        | IUCLID 5   |

#### Conclusion/Summary

: No known significant effects or critical hazards.

#### **Reproductive toxicity**

| Product /<br>ingredient<br>name         | Maternal<br>toxicity | Fertility | Development<br>toxin | Species | Dose  | Exposure | References |
|---|----------------------|-----------|----------------------|---------|---|----------|------------|
| Sulfuric acid<br>ammonium<br>salt (1:2) | -                    | Negative  | Negative             | Rat     | Oral:<br>1500<br>mg/kg<br>bw/day<br>OECD<br>422 | -        | IUCLID 5   |

#### Conclusion/Summary

: No known significant effects or critical hazards.

#### **Teratogenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

#### Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

#### Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

#### Aspiration hazard

No known significant effects or critical hazards.

| Information on the likely<br>routes of exposure | : | Not available.   |
|---|---|--|
| Potential acute health effects                  |   |  |
| Eye contact                                     | : | No known significant effects or critical hazards.  |
| Inhalation                                      | 1 | Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
| Skin contact                                    | : | No known significant effects or critical hazards.  |
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#### **Ingestion** : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact  | - 1 | No specific data. |
|--------------|-----|-------------------|
| Inhalation   | :   | No specific data. |
| Skin contact | :   | No specific data. |
| Ingestion    | :   | No specific data. |

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

| Potential immediate effects<br>Potential delayed effects | : | Not available.<br>Not available. |
|--|---|----------------------------------|
| Long term exposure                                       |   |                                  |
| Potential immediate effects                              | 1 | Not available.                   |
| Potential delayed effects                                | 1 | Not available.                   |

#### Potential chronic health effects

| Product / ingredient<br>name      | Result             | Species | Dose         | Exposure                     | References |
|-----------------------------------|--------------------|---------|--------------|------------------------------|------------|
| Sulfuric acid ammonium salt (1:2) | NOAEL Oral         | Rat     | 256<br>mg/kg | 365days                      | IUCLID 5   |
| Sulfuric acid ammonium salt (1:2) | NOEC<br>Inhalation | Rat     | 0.3 mg/kg    | 14days 8<br>hours per<br>day | IUCLID 5   |

| Conclusion/Summary   | : | No known significant effects or critical hazards.  |
|--|---|--|
| General<br>Carcinogenicity<br>Mutagenicity<br>Teratogenicity<br>Developmental effects<br>Fertility effects |   | No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| Over-exposure signs/symptoms   |   |  |

| Eye contact  | : | No specific data. |
|--------------|---|-------------------|
| Inhalation   | : | No specific data. |
| Skin contact | : | No specific data. |
| Ingestion    | : | No specific data. |

#### Numerical measures of toxicity

Acute toxicity estimates

Not available.

### Section 12. Ecological information

#### **Toxicity**

| Product / ingredient name  | Result | Species | Exposure | References |
|----------------------------|--------|---------|----------|------------|
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| Sulfuric acid ammonium | salt (1:2)                           |   |       |          |
|------------------------|--------------------------------------|---|-------|----------|
|                        | Acute EC50 121.7<br>mg/l Fresh water | Aquatic<br>invertebrates.<br>- Daphnia<br>magna | 48 h  | IUCLID 5 |
|                        | Acute EC50 2,700<br>mg/I Fresh water | Aquatic plants<br>- Heterosigma<br>akashiwo     | 432 h | IUCLID 5 |

| Conclusion/ | Summary |
|-------------|---------|
|-------------|---------|

No known significant effects or critical hazards.

#### Persistence/degradability

| Conclusion/Summary |  |
|--------------------|--|
|                    |  |

: No known significant effects or critical hazards.

No known significant effects or critical hazards.

#### **Bioaccumulative potential**

Conclusion/Summary

Mobility in soil

| MODILITY IN SOIL                          |   |
|---|---|
| Soil/water partition<br>coefficient (KOC) | : Not available.  |
| Mobility                                  | <ul> <li>This product may move with surface or groundwater flows<br/>because its water solubility is: high</li> </ul> |
| Other adverse effects                     | : No known significant effects or critical hazards.   |

### Section 13. Disposal considerations

2

2

#### Product

| Methods of disposal | : | The generation of waste should be avoided or minimized<br>wherever possible. Disposal of this product, solutions and<br>any by-products should at all times comply with the<br>requirements of environmental protection and waste<br>disposal legislation and any regional local authority<br>requirements. Dispose of surplus and non-recyclable<br>products via a licensed waste disposal contractor. Waste<br>should not be disposed of untreated to the sewer unless<br>fully compliant with the requirements of all authorities with<br>jurisdiction. Waste packaging should be recycled.<br>Incineration or landfill should only be considered when<br>recycling is not feasible. This material and its container<br>must be disposed of in a safe way. Empty containers or |
|---------------------|---|---|
|                     |   | must be disposed of in a safe way. Empty containers or<br>liners may retain some product residues. Avoid dispersal<br>of spilled material and runoff and contact with soil,<br>waterways, drains and sewers.  |

#### United States - RCRA Acute hazardous waste "P" List:

Not listed

#### United States - RCRA Toxic hazardous waste "U" List:

Not listed

## Section 14. Transport information

#### **Regulation: UN Class**

| 14.1 UN number                                       | Not regulated. |
|--|----------------|
| 14.2 UN proper shipping name                         |                |
| 14.3 Transport hazard class(es)                      |                |
| 14.4 Packing group                                   |                |
| 14.5 Environmental hazards                           | No.            |
| 14.6 Additional information<br>Environmental hazards | : No.          |

| Regulation: IMDG                |                |
|---------------------------------|----------------|
| 14.1 UN number                  | Not regulated. |
| 14.2 UN proper shipping name    |                |
| 14.3 Transport hazard class(es) |                |
|                                 |                |
| 14.4 Packing group              |                |
| 14.5 Environmental hazards      | No.            |
| 14.6 Additional information     |                |
| <u>Marine pollutant</u>         | : No.          |
|                                 |                |

| Regulation: IATA                |                |
|---------------------------------|----------------|
| 14.1 UN number                  | Not regulated. |
| 14.2 UN proper shipping name    |                |
| 14.3 Transport hazard class(es) |                |
|                                 |                |
| 14.4 Packing group              |                |
| 14.5 Environmental hazards      | No.            |
| 14.6 Additional information     |                |
| Marine pollutant                | No.            |
|                                 |                |

| Regulation: DOT Classification  |                |  |
|---------------------------------|----------------|--|
| 14.1 UN number                  | Not regulated. |  |
| 14.2 UN proper shipping name    |                |  |
| 14.3 Transport hazard class(es) |                |  |
|                                 |                |  |
| 14.4 Packing group              |                |  |
| 14.5 Environmental hazards      | No.            |  |
| 14.6 Additional information     |                |  |
| Environmental hazards           | : No.          |  |

| Regulation: TDG Class           |                |
|---------------------------------|----------------|
| 14.1 UN number                  | Not regulated. |
| 14.2 UN proper shipping name    |                |
| 14.3 Transport hazard class(es) |                |
|                                 |                |

| 14.4 Packing group   |  |
|--|--|
| 14.5 Environmental hazards   | No.  |
| 14.6 Additional information<br>Environmental hazards                           | : No.  |
| Special precautions for user   | : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |
| <u>IMSBC</u><br>Bulk cargo shipping name<br>Class<br>Group                     | <ul><li>AMMONIUM SULPHATE</li><li>Not applicable.</li><li>C</li></ul>  |
| Transport in bulk according to<br>Annex II of MARPOL 73/78 and<br>the IBC Code | : Not applicable.  |

# Section 15. Regulatory information

#### **United States**

| U.S. Federal regulations   | <ul> <li>United States - TSCA 12(b) - Chemical export<br/>notification: None of the components are listed.<br/>United States - TSCA 4(a) - Final Test Rules: Not listed<br/>United States - TSCA 4(e) - ITC Priority list: Not listed<br/>United States - TSCA 4(a) - Proposed test rules: Not<br/>listed</li> <li>United States - TSCA 4(f) - Priority risk review: Not<br/>listed</li> <li>United States - TSCA 5(a)2 - Final significant new use<br/>rules: Not listed</li> <li>United States - TSCA 5(a)2 - Proposed significant new<br/>use rules: Not listed</li> <li>United States - TSCA 5(a)2 - Proposed significant new<br/>use rules: Not listed</li> <li>United States - TSCA 5(e) - Substances consent order:<br/>Not listed</li> <li>United States - TSCA 6 - Final risk management: Not<br/>listed</li> <li>United States - TSCA 6 - Proposed risk management:<br/>Not listed</li> <li>United States - TSCA 8(a) - Comprehensive<br/>assessment report (CAIR): Not listed</li> <li>United States - TSCA 8(a) - Chemical risk rules: Not<br/>listed</li> <li>United States - TSCA 8(a) - Dioxin/Furane precusor:<br/>Not listed</li> <li>United States - TSCA 8(a) - Dioxin/Furane precusor:<br/>Not listed</li> <li>United States - TSCA 8(a) - Chemical Data Reporting<br/>(CDR): Not determined</li> <li>United States - TSCA 8(a) - Preliminary assessment<br/>report (PAIR): Not listed</li> <li>United States - TSCA 8(c) - Significant adverse<br/>reaction (SAR): Not listed</li> </ul> |
|----------------------------|---|
|                            |   |
|                            | Not listed<br>United States - EPA Clean water act (CWA) section   |
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|  |   | 307 - Priority pollutants: Not listed<br>United States - EPA Clean water act (CWA) section<br>311 - Hazardous substances: Not listed<br>United States - EPA Clean air act (CAA) section 112 -<br>Accidental release prevention - Flammable<br>substances: Not listed<br>United States - EPA Clean air act (CAA) section 112 -<br>Accidental release prevention - Toxic substances:<br>Not listed<br>United States - Department of commerce - Precursor<br>chemical: Not listed |
|--|---|--|
| Clean Air Act Section 112(b)<br>Hazardous Air Pollutants<br>(HAPs) | : | Not listed   |
| Clean Air Act Section 602<br>Class I Substances                    | : | Not listed   |
| Clean Air Act Section 602<br>Class II Substances                   | : | Not listed   |
| DEA List I Chemicals<br>(Precursor Chemicals)                      | : | Not listed   |
| DEA List II Chemicals)<br>(Essential Chemicals)                    | : | Not listed   |
| SARA 302/304<br>Not applicable.                                    |   |  |
| SARA 304 RQ  | : | Not applicable.  |
| <u>SARA 311/312</u>  |   |  |
| Classification   | : | Not applicable.  |

#### SARA 313

|                       |   | Product name        | CAS number | Concentration |
|-----------------------|---|---------------------|------------|---------------|
| Form R - Reporting    | : | Sulfuric acid       | 7783-20-2  | 80 - 100      |
| requirements          |   | ammonium salt (1:2) |            |               |
| Supplier notification | : | Sulfuric acid       | 7783-20-2  | 80 - 100      |
|                       |   | ammonium salt (1:2) |            |               |

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

#### State regulations

| : | The following components are listed:<br>Sulfuric acid ammonium salt (1:2) |
|---|---|
| : | None of the components are listed.  |
| : | None of the components are listed.  |
| : | The following components are listed:<br>Sulfuric acid ammonium salt (1:2) |
|   | :   |

#### California Prop. 65

This product contains a chemical (or chemicals) known to the State of California to cause cancer and birth defects or other reproductive harm.

#### International lists

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|----------------------------|------------|
|----------------------------|------------|

Philippines inventory (PICCS): All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
Japan inventory: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Australia inventory (AICS): All components are listed or exempted.

Canada inventory (DSL and NDSL): All components are listed or exempted.

United States inventory (TSCA 8b): All components are listed or exempted. EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.

Safety, health and : No known other specific national and/or regional regulations specific for the product (including its ingredients).

## Section 16. Other information

#### Hazardous Material Information System (U.S.A.)

| Health           | - | 1 |
|------------------|---|---|
| Flammability     |   | 0 |
| Physical hazards |   | 0 |
|                  |   |   |

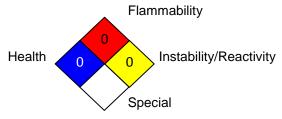
Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

#### Chronic toxicity:

- -: No data available.
- \*: Carcinogen, Target organs, Reproductive effects, Sensitizer to lungs

#### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

| Key to abbreviations       | : ADN/ADNR = European Provisions concerning the International Carriage of<br>Dangerous Goods by Inland Waterway<br>ADR = The European Agreement concerning the International Carriage of<br>Dangerous Goods by Road |
|----------------------------|---|
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|  | ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>bw = Body weight<br>GHS = Globally Harmonized System of Classification and Labelling of<br>Chemicals<br>IATA = International Air Transport Association<br>IBC = Internediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL 73/78 = International Convention for the Prevention of Pollution<br>From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine<br>pollution)<br>NOHSC - National Occupational Health and Safety Commission<br>RID = The Regulations concerning the International Carriage of Dangerous<br>Goods by Rail<br>SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons<br>UN = United Nations |
|--|--|
| References :   | EU REACH IUCLID5 CSR.<br>National Institute for Occupational Safety and Health, U.S.<br>Dept. of Health, Education, and Welfare, Reports and<br>Memoranda Registry of Toxic Effects of Chemical<br>Substances.<br>IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9,<br>Canada.  |
| History  |  |
| Date of printingDate of issue/Date of revisionDate of previous issueVersionPrepared by | 12/08/2014<br>12/04/2014<br>12/16/2013<br>1.1<br>Yara Product Classifications & Regulations.   |

#### Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.