



SAFETY DATA SHEET
(according to Regulation (EC) No 1907/2006 (REACH), ANNEX II)

# UREA-AMMONIUM NITRATE SOLUTION Revision date: 01.06.2012 Version 3.0

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| SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY                                     |   |  |  |  |
|---|---|--|--|--|
| 1.1 Product identifier  |   |  |  |  |
| Trade name:   | Liquid Nitrogen Fertilizer (UAN-32)   |  |  |  |
| Other names:  | Urea-Ammonium Nitrate Solution  |  |  |  |
| INDEX No. as listed in Annex VI of CLP:   | Not listed  |  |  |  |
| REACH registration No.:   | Not available as the product is a mixture. Relevant registration number of the components: Ammonium Nitrate - 01-2119490981-27-0042 Urea - 01-2119463277-33-0048  |  |  |  |
| 1.2 Relevant identified uses of the subst   | ance or mixture and uses advised against  |  |  |  |
| Relevant identified uses:   | Fertilizers   |  |  |  |
| Uses advised against:   | None  |  |  |  |
| 1.3 Details of the supplier of the safety of  | lata sheet  |  |  |  |
| Only Representative:  | OSTCHEM GERMANY GmbH Erdmannstr. 10 222765 Hamburg, Germany Phone: +49 40 5300 300 Fax: +49 40 5300 30 33 www.ostchem.com E-mail: matthaeus.ebinal@ostchem.de larissa.schmelzing@ostchem.de               |  |  |  |
| Manufacturer:   | PJSC "AZOT" 72, Pervomayskaya Str., Cherkassy, Ukraine Tel.: +38 0472 39-63-03  |  |  |  |
| E-mail address of the person responsible for this Safety Data Sheet:                              | PJSC "AZOT" REACH Department onr@azot.cherkassy.net   |  |  |  |
| National contact:   | Not available   |  |  |  |
| 1.4 Emergency telephone number  |   |  |  |  |
| Emergency phone number:   | Tel: + 49 405 300 300 Opening hours: 9-18 (CET) Languages of the phone service: German, English, Russian Tel: + 38 (0472) 39 61 17 Opening hours: 0-24 Languages of the phone service: Russian, Ukrainian |  |  |  |
|   | SECTION 2: HAZARDS IDENTIFICATION   |  |  |  |
| 2.1 Classification of the substance or mi   | ixture  |  |  |  |
| Product definition: Mixture   |   |  |  |  |
| (DPD).  | in accordance with Regulation 1272/2008 (CLP) as well as with Directive 1999/45/EC  |  |  |  |
| 2.2 Label elements  |   |  |  |  |
| Hazard pictograms: Signal word: Hazard statements: Precautionary statements Prevention: Response: | Not applicable No signal word Not applicable  Not applicable  Not applicable  |  |  |  |
| Storage: Disposal:  | Not applicable Not applicable   |  |  |  |
| 2.3 Other hazards:  | 14οι αμφιισάριο   |  |  |  |
| Mixture meets the criteria for PBT according to Regulation (EC) No.1207/2006, Annex XIII          | No.<br>P: Not available. B: Not available. T: No.   |  |  |  |
| Mixture meets the criteria for vPvB according to Regulation (EC) No.1207/2006, Annex XIII         | Not available   |  |  |  |





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Not available

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classification

Other hazards which do not result in

|   | SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS   |   |   |   |   |  |  |
|---|---|---|---|---|---|--|--|
| 3.2 Mixtures Description of the mixture: Mixture of urea and ammonium nitrate |   |   |   |   |   |  |  |
|   |   | I REACH I   |   |   | REACH Classification                              |  |  |
| Components  | CAS No.   | Registration No.  | Concentration   | 67/548/EEC  | Regulation (EC)<br>No.1272/2008 [CLP]             |  |  |
| Urea  | 57-13-6   | 01-2119463277-33-<br>0048   | 33.0-37.0 %   | Not classified  | Not classified                                    |  |  |
| Ammonium nitrate  | 6484-52-2   | 01-2119490981-27-<br>0042   | 43.0-48.0 %   | R8;R36<br>O; Xi   | H272<br>H319                                      |  |  |
| <b>Note:</b> The product is See Section 16 for the                            | Note: The product is treated with corrosion inhibitor. See Section 16 for the full text of the H-statements and R-phrases declared above. |   |   |   |   |  |  |
|   |   |   | T-AID MEASURES  |   |   |  |  |
| 4.1 Description of fi   | rst aid measures  |   |   |   |   |  |  |
| General notes:  |   | any personal risk or v  | vithout suitable training   | <b> .</b>   | shall be taken involving                          |  |  |
| Following eye contac  | t:  |   |   |   | g the upper and lower cal attention if irritation |  |  |
| Following skin contact  | ot:   |   | skin with plenty of v   |   | aminated clothing and                             |  |  |
| Following ingestion:  |   | Wash out mouth with comfortable for bread personnel. Get medic  | h water. Remove victir<br>thing. Do not induce vo<br>cal attention if symptom | n to fresh air and ke<br>omiting unless direct<br>is occur. | ep at rest in a position ed to do so by medical   |  |  |
| Following inhalation:   |   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |   |   |   |  |  |
| Self-protection for the   | e first-aider:  | None  |   |   |   |  |  |
| 4.2 Most important  | symptoms and effec  | ts, both acute and de   | layed   |   |   |  |  |
| Potential acute heal  | Ith effects   |   | -   |   |   |  |  |
| Eye contact:  |   | No known significant effects or critical hazards  |   |   |   |  |  |
| Inhalation:   |   | Exposure to decomp<br>be delayed following  |   | cause a health haza   | rd. Serious effects may                           |  |  |
| Skin contact:   |   | No known significant  | effects or critical hazar   | ds  |   |  |  |
| Ingestion:  |   | Irritating to mouth, th   | roat and stomach.   |   |   |  |  |
| Over-exposure sign  | s/symptoms  |   |   |   |   |  |  |
| Eye contact:  |   | No specific data.   |   |   |   |  |  |
| Inhalation:   |   | No specific data.   |   |   |   |  |  |
| Skin contact:   |   | No specific data.   |   |   |   |  |  |
| Ingestion:  |   | No specific data.   |   |   |   |  |  |
| 4.3 Indication of any   | y immediate medical   | attention and special   | treatment needed  |   |   |  |  |
| Notes to physician:   |   |   | of decomposition pro<br>may need to be kept u                                 |   | otoms may be delayed.<br>ance for 48 hours.       |  |  |
| Specific treatments:  |   | No specific treatment   | į   |   |   |  |  |
|   |   | SECTION 5: FIRE-F   | IGHTING MEASURES  |   |   |  |  |
| 5.1 Extinguishing m   | redia   |   |   |   |   |  |  |
| Suitable extinguishing  | g media:  | Use extinguishing me  | edia suitable for surrour   | nding materials.  |   |  |  |
| Not suitable extinguis  | shing media:  | None  |   |   |   |  |  |
| 5.2 Special hazards   | arising from the sub  | stance or mixture   |   |   |   |  |  |
| Hazards from the  |   | None.   |   |   |   |  |  |
| substance or mixture:<br>Hazardous combustion                                 |   |   | cts may include the fall  | owing materials:  |   |  |  |
| products:   |   | Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, amines   |   |   |   |  |  |
| 5.3 Advice for firefig  | ghters  |   |   |   |   |  |  |



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| Special precautions for fire-fighters:          | No special measures required   |
|---|--|
| Special protective equipment for fire-fighters: | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
|   |  |

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

#### 6.1.1 For non-emergency personnel

Protective equipment: Put on appropriate personal protective equipment if necessary.

<u>Emergency procedures:</u> Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation.

#### 6.1.2 For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### 6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways or air).

#### 6.3 Methods and material for containment and cleaning up

- 6.3.1 For containment: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas.
- 6.3.2 For cleaning up: Contain and collect spillage with non-combustible, absorbent material, e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
- 6.3.3 Other information

Dispose of via a licensed waste disposal contractor.

#### 6.4 Reference to other sections

See section 8 for personal protective equipment and section 13 for waste disposal.

#### **SECTION 7: HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling

<u>Protective measures</u>: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

Measures to prevent fire: Keep away from heat. Keep away from sources of ignition.

Measures to prevent aerosol and dust generation: Store in a well ventilated area.

Measures to protect the environment: Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### 7.2 Conditions for safe storage, including any incompatibilities

| Technical measures/Storage conditions:                    | Store in accordance with local regulations. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Suitable packing material: stainless steel, synthetic material. Not suitable packing material: zinc and copper. |
|---|--|
| Packing materials:  | Use dedicated containers   |
| Requirements for storage rooms and vessels:               | 12   |
| Storage class: Further information on storage conditions: | None   |
|   |  |
| Incompatible products:                                    | Strong acids, strong bases, organic materials, chromates, zinc, copper and nickel.   |
| 7.3 Specific end use(s):                                  | None   |

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| ALO1   | LO. EVDO   | CURE CONTROL C/DI  | TOCONAL DI                  | OTECTIO                   | v.  |           |
|--|--|--|-----------------------------|---------------------------|---|-----------|
|  | N 8: EXPU  | SURE CONTROLS/PE   | ERSUNAL PI                  | ROTECTIO                  | V   |           |
| 8.1 Control parameters   |  |  |                             | _                         |   |           |
| 8.1.1 National occupational exposure limit   |  |  |                             | ole                       |   |           |
| 8.1.2 National biological limit values (urea   |  | <i>m nitrate):</i> Not availab   | ole                         |                           |   |           |
| 8.1.3 PNEC (Predicted No Effect Concent  | tration):  |  |                             |                           |   |           |
| Environmental protection target  |  | <u>PNEC</u>  |                             |                           |   |           |
| Environmental protection target  |  | Urea Ammonium nitrate  |                             |                           |   |           |
| Aqua – freshwater  | 0.047 m  | ng/L   |                             | 0.45 mg/L                 |   |           |
| Aqua – salt/marine water   | 0.047 m  | 0.047 mg/L 0.045 mg/L  |                             |                           |   |           |
| Aqua – intermittent releases   | No expo  | No exposure expected 4.5 mg/L  |                             |                           |   |           |
| Sediment   | No expo  | sure expected  |                             | No hazard                 | I identified  |           |
| Soil   | •  | sure expected  |                             | No hazaro                 | I identified  |           |
| Sewage treatment plant   | •  | sure expected  |                             | 18 mg/L                   |   |           |
| Food chain: oral (secondary poisoning)   | · ·  | osure expected   |                             |                           | ure expected  |           |
| Air:   | <u> </u>   | osure expected   |                             | No hazard                 | -   |           |
| 8.1.4 DNEL   | 140 evh  | Julia expedied   |                             | 140 Hazait                | i idonunou  |           |
| U.I.T DIVLE  |  |  | ΔΛ                          | UTE                       |   |           |
|  |  | Route  |                             |                           | fect Level (DNEL)   | ]         |
|  |  |  |                             | rkers                     | General population  | ]         |
|  |  | Oral<br>Dermal   | Not applic<br>580 mg/k      |                           | 42 mg/kg bw/day<br>580 mg/kg bw/day   | _         |
|  |  | Inhalation   | 292 mg/m                    | ງ ການໄດ້<br>ກ່າ           | 125 mg/m <sup>3</sup>   | 1         |
|  |  |  | LONG                        | TERM                      |   | _         |
| UREA   |  | Route  |                             |                           | fect Level (DNEL)   | _         |
| UREA   |  | Oral   | Not applic                  | rkers<br>cable            | General population 42 mg/kg bw/day  | 1         |
|  |  | Dermal   | 580 mg/k                    | g bw/day                  | 580 mg/kg bw/day  | 1         |
|  |  | Inhalation   | 292 mg/m                    | 1 <sup>3</sup>            | 125 mg/m <sup>3</sup>   | ]         |
|  | there is exposur   | no evidence of local   | effects from on is not pred | human stud<br>dicted. DNE | mal studies performed w<br>ies or from experience o<br>Ls for local effects are t | f human   |
|  |  | Route  |                             |                           | fect Level (DNEL)   |           |
|  |  |  |                             | rkers                     | General population  | 1         |
|  |  | Oral <sup>1</sup> Dermal <sup>1</sup>  | Not applic<br>21.3 mg/k     |                           | 12.8 mg/kg bw/d<br>12.8 mg/kg bw/day  | 1         |
|  |  | Inhalation <sup>1</sup>  | 37.6 mg/r                   |                           | 11.1 mg/m <sup>3</sup>  | -         |
| AMMONIUM NITRATE   | <sup>1</sup> : As an acute toxicity hazard leading to Classification and Labeling of the substance has not been identified, the long-term DNEL is considered sufficient to ensure that effects from acute exposure to the substance do not occur (in accordance with ECHA Guidance on information requirements and chemical safety assessment: Chapter R.8: Characterisation of dose [concentration]-response for human health, May 2008 and Part B: Hazard Assessment, Draft new chapter B.8 Scope of Exposure Assessment, March 2010). |  |                             |                           |   |           |
| 8.1.5 Monitoring procedures: Not available   |  |  |                             |                           |   |           |
| 8.2 Exposure controls  |  |  |                             |                           |   |           |
| 8.2.1 Appropriate engineering controls:  |  |  |                             |                           |   |           |
| Substance/mixture related measures to pr   | revent exp   | osure during identified  | uses: The us                | sual precaut              | ions for the handling of ch   | nemicals  |
| must be observed. Before direct contact w<br>Technical measures to prevent exposure<br>control worker exposure to airborne conta | e: No spe  |  |                             |                           | entilation should be suff   | icient to |
| 8.2.2 Personal protection equipment:   | mmants.  |  |                             |                           |   |           |
| 8.2.2.1 Respiratory protection:  |  | No special protection is required. In case of insufficient ventilation, wear suitable respiratory equipment. |                             |                           |   |           |
| 8.2.2.2 Skin protection:   | . sopnat   | - 7 - d - d - d - d - d - d - d - d - d  |                             |                           |   |           |
| 0.2.2.2 SKIII DIOLECLIOII.   |  |  |                             |                           |   |           |

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| Hand protection:  | Gloves: leather, butyl rubber and neoprene.  |  |
|---|--|--|
| Other skin protection:  | Working clothes  |  |
| 8.2.2.3 Eye and face protection:                                      | Safety glasses with side shields.  |  |
| 8.2.2.4 Thermal hazards:  | None   |  |
| 8.2.3 Environmental exposure controls:                                | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |  |
| Advice on personal protection is applicable for high exposure levels. |  |  |

Select proper personal protection based on a risk assessment of the actual exposure situation

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 Information on basic physical and chemical properties

| Appearance:                                   | Colourless liquid  |
|---|--|
| Odour:  | Odourless or mild ammonia odour  |
| Odour threshold:                              | Not available  |
| pH:   | 7.4-8.1  |
| Melting point/Freezing point:                 | - 26°C   |
| Initial boiling point and boiling range:      | >100°C   |
| Flash-point:                                  | Not available.   |
| Evaporation rate:                             | Not available.   |
| Flammability (solid, gas):                    | Not available.   |
| Auto-ignition temperature:                    | Not applicable.  |
| Upper/lower flammability or explosive limits: | Not applicable   |
| Vapour density:                               | Not available.   |
| Oxidising properties:                         | Non-classified as oxidizing substance in compliance with Directive 1999/45 EC.         |
| Vapour pressure:                              | Not available.   |
| Relative density:                             | Not available.   |
| Solubility in water:                          | The preparation is water solution, so it may be diluted with water without any limits. |
| Partition coefficient n-octanol/water:        | Not available.   |
| Viscosity:                                    | Not available.   |
| Explosive properties:                         | None   |
| Decomposition temperature:                    | Not available  |

#### 9.2 Other information

#### **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1 Reactivity

No specific test data related to reactivity available for this product.

#### 10.2 Chemical stability

The product is stable.

#### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to these provisions (see section 7, handling and storage).

#### 10.4 Conditions to avoid

Possible dangerous reactions with other chemicals are unknown; do not mix with other substances. After defreezing, the properties are not changed.

### 10.5 Incompatible materials

Reducing agents, strong acids and bases, metal powders, combustible materials, chromates, zinc, copper and copper alloys, chlorates

#### 10.6 Hazardous decomposition products

Carbon monoxide, ammonia (NH<sub>3</sub>), nitrogen oxides (NO, NO<sub>2</sub> etc.)

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

| 11.1.1 Acute toxicity | Oral:       | LD50(rats) > 2950mg NH <sub>4</sub> NO <sub>3</sub> / kg;<br>LD50(rats) > 14300mg CO(NH <sub>2</sub> ) <sub>2</sub> / kg |
|-----------------------|-------------|--|
|                       | Dermal:     | Not available  |
|                       | Inhalation: | Not available  |



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|--|---|--|--|--|
|  | Oral:   | Not available  |  |  |
| 11.1.2 Repeated dose toxicity  | Dermal:   | Not available  |  |  |
|  | Inhalation:   | Not available  |  |  |
| 11.1.3 Irritation:   | Not available   |  |  |  |
| 11.1.4 Corrosivity:  | Not available   |  |  |  |
| 11.1.5 Sensitization:  | Not available   |  |  |  |
| 11.1.6 Toxicity for reproduction:  | Not available   |  |  |  |
| 11.1.7 Mutagenicity :  | No known significant effects or cr  | itical hazards   |  |  |
| 11.1.8 Carcinogenicity:  | Not available   |  |  |  |
|  | SECTION 12: ECOLOGICAL INF  | ORMATION   |  |  |
| 12.1 Toxicity  |   |  |  |  |
| Fish (freshwater, short-term):   | Not available   |  |  |  |
| Fish (long-term):  | Not available   |  |  |  |
| Freshwater invertebrates (short-term):   | Not available   |  |  |  |
| Freshwater invertebrates (long-term):  | Not available   |  |  |  |
| Freshwater algae:  | Not available   |  |  |  |
| Terrestrial plants:  | Not available   |  |  |  |
| Soil macro-organisms:  | Not available   |  |  |  |
| Birds:   | Not available   |  |  |  |
| Mammals:   | Not available   |  |  |  |
| 12.2 Persistence and degradability   |   |  |  |  |
| Abiotic degradation:   |   |  |  |  |
| Phototransformation/photolysis   | Not available   |  |  |  |
| Biodegradation:  | Not available   |  |  |  |
| Hydrolysis:  | Not available   |  |  |  |
| 12.3 Bioaccumulative potential   |   |  |  |  |
| Not available.   |   |  |  |  |
| 12.4 Mobility in soil  |   |  |  |  |
| Known or predicted distribution to environmental compartments:   | Not available   |  |  |  |
| Surface tension:   | Not available   |  |  |  |
| Adsorption coefficient:  | Not available   |  |  |  |
| 12.5 Results of PBT and vPvB assessm   | nent  |  |  |  |
| Not applicable.  |   |  |  |  |
| 12.6 Other adverse effects :No known si Remarks: No ecological problems are to   |   | ndled and used with due care and attention.  |  |  |
| 12.7 Additional information: None  |   |  |  |  |
| 12.17 Additional Information: 140110   |   | DERATIONS  |  |  |
| 72.7 Additional morniation. None   | SECTION 13: DISPOSAL CONSI  |  |  |  |
| 13.1 Waste treatment methods   |   |  |  |  |
|  | Empty containers or liners may retain be disposed of in a safe way. Distail waste disposal contractor. Disposal times comply with the requirement   | pose of surplus and non-recyclable products via a licensed<br>of this product, solutions and any by-products should at all<br>of environmental protection and waste disposal legislation       |  |  |
| 13.1 Waste treatment methods  13.1.1 Product / Packaging disposal:  Waste codes / waste designations according to LoW (Commission Decision 2001/118/EC):   | Empty containers or liners may retain be disposed of in a safe way. Distant waste disposal contractor. Disposal   | pose of surplus and non-recyclable products via a licensed of this product, solutions and any by-products should at all s of environmental protection and waste disposal legislation irements. |  |  |
| 13.1 Waste treatment methods  13.1.1 Product / Packaging disposal:  Waste codes / waste designations according to LoW (Commission Decision 2001/118/EC):  13.1.2 Waste treatment-relevant information: | Empty containers or liners may retain be disposed of in a safe way. Dist waste disposal contractor. Disposal times comply with the requirement and any regional local authority requirement and any regional local authority requirement.   | pose of surplus and non-recyclable products via a licensed of this product, solutions and any by-products should at all s of environmental protection and waste disposal legislation irements. |  |  |
| 13.1 Waste treatment methods  13.1.1 Product / Packaging disposal:  Waste codes / waste designations according to LoW (Commission Decision 2001/118/EC):  13.1.2 Waste treatment-relevant              | Empty containers or liners may retain be disposed of in a safe way. Dist waste disposal contractor. Disposal times comply with the requirement and any regional local authority requirement and any regional local authority requirement. The generation of waste should be a Avoid dispersal of spilt material and | of this product, solutions and any by-products should at all s of environmental protection and waste disposal legislation irements.  |  |  |



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|   | SECTION 14. TRANSPORT INFORMATION |  |  |  |  |  |
|---|-----------------------------------|--|--|--|--|--|
| The product is not classified as dangerous when carried by road (ADR), train (RID) or maritime (IMDG) |                                   |  |  |  |  |  |
| ADR/RID ADN/ADNR IMDG   |                                   |  |  |  |  |  |
|   |                                   |  |  |  |  |  |

| •             | • , , , , , , , , , , , , , , , , , , , | ' '  | ,  |
|---------------|---|--|--|
| ADR/RID       | ADN/ADNR                                | IMDG   | IATA   |
| Not regulated | Not regulated                           | Not regulated  | Not regulated  |
| _             | _                                       | _  | _  |
| _             | _                                       | _  | _  |
| _             | _                                       | _  | _  |
| No            | No                                      | No   | No   |
| Not available | Not available                           | Not available  | Not available  |
| _             | _                                       | _  | _  |
|               | Not regulated  No                       | Not regulated  Not regulated | Not regulated         Not regulated         Not regulated           -         -         -           -         -         -           -         -         -           No         No         No |

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available

#### **SECTION 15: REGULATORY INFORMATION**

#### 15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

#### **EU Regulations**

Authorisations and\or restrictions on

Authorisation:

EU Regulation (EC) No. 1907/2006

(REACH)

Annex XIV - List of substances subject to

authorisation

Substances of very high concern

Restrictions on use:

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

Not applicable

National regulations (country): Not available

15.2 Chemical safety assessment: Not

Not applicable

None of the components are listed

#### **SECTION 16: OTHER 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 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 proceed, unless specified in the text.

**16.1 Indication of changes:**Changes were made to comply with the Guidance on the compilation of safety data sheets (version 1.1)

Page header; 1.1; 1.3; 1.4; 3.2; 4.1; 5.1; 6.1; 6.3; 7.1; 7.2; 7.3; 8.1; 8.2; 9.1; 9.2; 11.1; 12.2; 12.4; 12.7; 13.1; 15.1

#### 16.2 Abbreviations and acronyms:

- ADN European Agreement concerning the International Carriage of Dangerous Goods on Inland Waterway
- ADNR ADN Rhine
- · ADR Agreement on Dangerous Goods by Road
- CAS Chemical Abstracts Service
- CLP Classification, Labelling and Packaging of chemicals
- DPD Dangerous Preparations Directive
- EC European Commission
- IATA International Air Transport Association
- IBC Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
- IMDG International Maritime Dangerous Goods
- LD50 Lethal Dose
- LoW List of Wastes
- MARPOL International Convention for the Prevention of Pollution From Ships
- PBT Persistent, bioaccumulative, toxic chemical
- PJSC Public Joint-Stock Company
- REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID International Rule for Transport of Dangerous Substances by Railway
- UN United Nations
- vPvB very persistent, very bioaccumulative



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SAFETY DATA SHEET
(according to Regulation (EC) No 1907/2006 (REACH), ANNEX II)

# UREA-AMMONIUM NITRATE SOLUTION Revision date: 01.06.2012 Version 3.0



| 16.3 Key literature references and sources for data: CSR (Chemical Safety Report), Guidance on safe use etc. |  |  |
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| 16.4 Training advice:  | In accordance with the local regulations   |  |
| 16.5 Further information:  | None   |  |
| 16.6 Full text of classifications [CLP/GHS]:   | R8: Contact with combustible material may cause fire R36: Irritating to eyes Xi: Irritant O: Oxidizing May intensify fire; oxidiser. (H272) Causes serious eye irritation (H319) |  |