

Compiled on: 9.12.2010.

Revised on: 20.10.2015.

Replaces the previous version of the safety data sheet starting from: 15.08.2016.

Version No: 1

Rev. No: 7 this revised version replaces all the previous versions

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<p><b>Subsection 1.1. Product identifier:</b></p>	<p style="text-align: center;"><b>UAN (28- 32%N)</b> <b>UREA AMMONIUM NITRATE</b></p>
<p><b>Subsection 1.2. Relevant identified uses of the substance or mixture, and uses advised against:</b></p> <p><b>Uses advised against:</b></p>	<p>Primarily intended for fertilizing of cereals and lawns. UAN is successfully used for more rapid decomposition of plant residues. Applicable to: oilseed rape, meadows and pastures, vegetables, wheat, maize, sugar beet, potatoes. It is used as raw material for the production of adhesives in wood processing industry.</p> <p>None</p>
<p><b>Subsection 1.3. Details of the Supplier:</b> Manufacturer/Supplier:</p> <p>a) Status:</p> <p>b) Street address and telephone number:</p> <p>c) e-mail address of competent person responsible for the safety data sheet</p> <p>d) only representative in the EU</p>	<p>"HIP-AZOTARA" d.o.o. Pančevo Manufacturer/Producer Spoljnostarčevačka 80, 26000 Pančevo, The Republic of Serbia <b>+381 13 308067;</b> 7-15 h (Environmental Protection Department) <b>+381 13 308052, 308057;</b> 7-15 h (Sales Department) <a href="mailto:gordana.vasojevic@hip-azotara.rs">gordana.vasojevic@hip-azotara.rs</a> <a href="mailto:ekologija.info@hip-azotara.rs">ekologija.info@hip-azotara.rs</a></p> <p>BENS consulting d.o.o. Address: Bakovniška 7, 1241 Kamnik, Slovenia Tel.: +386 1 562 19 20 e-mail: <a href="mailto:info@kemikalije.com">info@kemikalije.com</a> Person responsible for information in EU: Mark Stanojevic</p>
<p><b>Subsection 1.4. Emergency address and telephone number:</b></p> <p><b>Single European emergency call number:</b></p> <p><b>Supplier:</b></p>	<p>National Poison Control Center– VMA Crnotravska 17, 11 000 Belgrade +381 11 3608440 (24 h / 7 days a week)</p> <p>112</p> <p>+386 1 562 19 20</p>

## SECTION 2. HAZARDS IDENTIFICATION

<p><b>Subsection 2.1.</b> <b>Classification of the substance or mixture:</b></p>	<p><u>Classification of the chemical substance according to the Rulebook on classification, packaging, labelling and advertising of the chemical and certain article in accordance with the Globally harmonized system of classification and labelling of the UN (The Official Gazette of the RS no. 64/10, 26/11, 5/12 and 105/13):</u></p> <p><i>UAN (Plant nutrition product) NOT classified as hazardous product</i></p> <p><u>Additional information EUH210:</u> Safety data sheet available on request</p> <p><u>Harmful physical and chemical effects of the chemical substance:</u> UAN itself does not show any harmful physical and chemical properties; however, the inhalation of gases formed by decomposition may cause irritation of the respiratory tract and eyes.</p> <p><u>Harmful effects of the chemical substance to human health and the environment:</u></p> <ul style="list-style-type: none"> <li>- non-hazardous product if handled with care</li> <li>- may be harmful due to the presence of ammonium nitrate</li> <li>- may cause irritation due to the presence of urea in the fertilizer</li> <li>- there is no environmental hazard</li> </ul>
<p><b>Subsection 2.2. Label elements:</b></p>	<p><b>The fertilizer is not classified as hazardous product</b> and therefore there is no need for label elements. The substance classified as hazardous is ammonium nitrate, the classification and labelling of which are given in <i>section 3. Information on ingredients.</i></p>
<p><b>Subsection 2.3.</b> <b>Other hazards:</b></p> <p>a) persistent-bioaccumulative-toxic/very persistent-very bioaccumulative</p> <p>b) information on other harmful effects on human health</p> <p>v) information on environmental effects</p>	<p>The substance is not classified as PBT, or as vPvB.</p> <ul style="list-style-type: none"> <li>- if inhaled may be irritating to throat and respiratory tract</li> <li>- prolonged contact with skin and eyes may cause irritation</li> <li>- there is no environmental hazard</li> </ul>

## SECTION 3. INFORMATION ON INGREDIENTS

<b>Subsection 3.1.</b> <b>Information on the ingredients of the substance:</b>	<i>See Subsection 3.2. Information on the ingredients of the mixture</i>			
<b>Subsection 3.2.</b> <b>Information on the ingredients of the mixture:</b>	<i>Product identifier</i>	<b>Ammonium nitrate**</b> <b>CAS:6484-52-2</b>	<b>Urea</b> <b>CAS: 57-13-6</b>	
	<i>EC number</i>	229-347-8	200-315-5	
	<i>REACH number</i>	01-2119490981-27-0114	01-2119463277-33-0138	
	<i>Index number</i>	/	/	
	<i>UAN concentration</i>	28 % 30 % 32%	≥40.0 ≥42.0 ≥44.0	≤30.0 ≤32.7 ≤35.4
	<i>Occupational exposure limit values</i>	/	/	
	<i>Classification according to CLP/GHS</i>			
	<i>Hazard class and category</i>	-Oxidizing solid 3 -Eye irritation, category 2	/	
	<i>Hazard statements</i>	H272 H319	/	

## SECTION 4. FIRST AID MEASURES

<b>Subsection 4.1.</b> <b>Description of first aid measures:</b>	
- following inhalation:	Move the injured person to fresh air at once. Keep the patient warm and at rest. Apply artificial respiration if breathing has stopped or shows signs of failing. If the patient is unconscious, place them on their side in a stable position. If the patient suffers cardiac arrest (absence of heartbeats or pulse) commence cardio-pulmonary resuscitation immediately. Immediately obtain medical attention.
- following skin contact:	Rinse with large quantities of water. Remove clothing and rinse the affected parts with water. Immediately obtain medical attention.
- following eye contact:	Immediately flush eyes with eyewash solution or water for at least 15 minutes. Hold eyelids open during flushing, protecting the eye that is not affected. Continue flushing until medical attention is obtained.
- following ingestion:	If the injured person is conscious, wash out mouth with water and give 2 or 3 glasses of water to drink. Do not induce vomiting, but if it occurs, put the patient in the face-down position in order to prevent lung damage. Obtain immediate medical attention.

- advice:	The rescuer must be adequately equipped with suitable protective clothing and SCBA. Give immediate first aid, obtain medical attention and fully inform the physician about the details of the accident. In addition to the facemask and self-contained breathing apparatus, the rescuer must wear protective gloves, protective clothing, suitable boots.
<b>Subsection 4.2.</b> <b>Most important symptoms and effects, both acute and delayed:</b>	The most important symptoms <u>following inhalation</u> are: nose and throat irritation, cough, breathing difficulty. <u>Following ingestion</u> : small quantities are unlikely to cause toxic effects, however large quantities may cause gastrointestinal disorders. Following <u>skin</u> contact may cause skin irritation, redness and itching. <u>Eye contact</u> : causes eye irritation.
<b>Subsection 4.3.</b> <b>Indication of any immediate medical attention and special treatment needed:</b>	Obtain medical attention if any of the above symptoms occur.

## SECTION 5. FIREFIGHTING MEASURES

<b>Subsection 5.1.</b> <b>Extinguishing media:</b>	Water.
<b>Subsection 5.2.</b> <b>Special hazards arising from the substance or mixture:</b>	UAN is not self-ignitable, however it can cause ignition of self-ignitable materials nearby. Vapours resulting from UAN combustion, i.e. the combustion of ammonium nitrate as the main substance in this fertilizer, are toxic. Ammonia and nitrogen oxides are released. Do not allow molten fertilizer to run into drains. If water containing fertilizer enters any drains or watercourses, inform the authorities immediately. Fire may be caused by: non-compliance with the instructions for use, not following the operating instructions (negligence, carelessness, lack of knowledge). If heated at high temperatures in tightly closed containers, ammonium-nitrate-based fertilizers may cause explosion.
<b>Subsection 5.3.</b> <b>Advice for firefighters:</b>	The fire should be extinguished from the greatest possible distance, and it should be approached from the direction of the wind. Firefighters must be protected by wearing suitable protective clothing (including helmet, protective footwear and gloves) and self-contained breathing apparatus. Protective equipment set for firefighters as per the ref. standard SRPS EN 469, protective gloves for firefighters (ref. standard SRPS EN 659 ) and boots as well as appropriate respiratory protective devices (ref. standard SRPS EN 137). They must also be trained for carrying and properly using the equipment.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Subsection 6.1. Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. For information on protective equipment see <i>Subsection 8.2. Exposure controls and personal protection</i> . Avoid contact with eyes and skin.
<b>Subsection 6.2. Environmental precautions:</b>	Any spillage of UAN should be immediately cleaned up. Do not allow mixing with dust and other combustible or organic substances. In case of fire and ammonium nitrate vapours spreading, try to extinguish the fire as quickly as possible and notify emergency response personnel.
<b>Subsection 6.3. Methods and material for containment and cleaning up:</b>	Trained personnel should isolate the source of spill as soon as possible. Ventilate area of spill or leak. Remove ignition sources. Take care to avoid contamination of watercourses. Inform appropriate authorities in case of accidental contamination of watercourses or drains.
<b>Subsection 6.4. Reference to other sections:</b>	See <i>Section 8.2. Exposure controls and personal protection</i> for information on protective equipment. For information on waste treatment see <i>Section 13. Disposal considerations</i> .

## SECTION 7. HANDLING AND STORAGE

<b>Subsection 7.1. Precautions for safe handling:</b>	<p><u>Information on safe handling of the chemical substance:</u></p> <ul style="list-style-type: none"><li>-follow the instructions for use;</li><li>-wear full protective equipment;</li><li>-avoid skin and eye contact and inhalation of vapours;</li><li>-provide adequate ventilation.</li></ul> <p><u>Handling of incompatible chemical substances or mixtures:</u></p> <p>Avoid ignitable materials, fine metallic powders (zinc, copper, cobalt), chlorates, permanganates, strong acids and other active compounds.</p> <p><u>Information on handling in case of release of the chemical substance to the environment:</u></p> <ul style="list-style-type: none"><li>-control atmospheric levels (humidity, temperature, pressure) for compliance with occupational exposure limits;</li><li>-personal protective equipment and firefighting equipment should always be at hand;</li><li>- clean up the location as quickly as possible and notify emergency response personnel.</li></ul> <p><u>General occupational hygiene:</u></p> <ul style="list-style-type: none"><li>- do not eat, drink or smoke in work areas;</li><li>- wash hands after use;</li><li>- remove contaminated clothing and protective equipment before exiting the work areas.</li></ul>
<b>Subsection 7.2. Conditions for safe storage, including any</b>	<p><u>Technical conditions:</u> The storage area must be dry and well-ventilated. The stored product must not be directly exposed to sunlight in order to avoid physical damage due to thermal</p>

<p><b>incompatibilities:</b></p>	<p>decomposition. The storage temperature should be above the UAN solution crystallization point. Do not permit smoking in the storage area.</p> <p><u>Storage conditions:</u> UAN can be stored in closed (polypropilene or polyethylene) containers or in stainless steel containers. UAN is mildly corrosive to carbon steel; avoid use of this material. Copper and copper alloys (brass) should not be used.</p> <p><u>Reactions with construction materials:</u> Incompatible materials for storage are ignitable materials, reducing agents, acids, alkalies, sulphur, chlorates, chlorides, chromates, nitrites, permanganates, metallic powder, substances containing metallic powders such as copper, nickel, cobalt, zinc and their alloys.</p> <p><u>Electrical equipment:</u> adequate electrical installation is required.</p>
<p><b>Subsection 7.3. Specific end use(s)</b></p>	<p>Professional use only, in accordance with the prescribed operating instructions.</p>

## SECTION 8. EXPOSURE CONTROLS

### Subsection 8.1. Control parameters:

No occupational exposure limits have been established for UAN or any of its components.

#### Derived no-effect level (DNEL):

Name of the substance	Population likely to be exposed	Route of exposure	Frequency and duration of the exposure	Value
Ammonium nitrate 6484-52-2	workers	dermal	Long-term exposure	5.12 mg/kg bw/day
Ammonium nitrate 6484-52-2	workers	inhalation	Long-term exposure	36 mg/m <sup>3</sup>
Ammonium nitrate 6484-52-2	consumers	inhalation	Long-term exposure	8.9 mg/m <sup>3</sup>
Ammonium nitrate 6484-52-2	consumers	dermal	Long-term exposure	2.56 mg/kg bw/day
Ammonium nitrate 6484-52-2	consumers	oral	Long-term exposure	2.56 mg/kg bw/day
Urea 57-13-6	workers	inhalation	Long-term exposure	292 mg/m <sup>3</sup>
Urea 57-13-6	workers	dermal	Long-term exposure	580 mg/kg bw/day
Urea 57-13-6	consumers	inhalation	Long-term exposure	125 mg/m <sup>3</sup>
Urea 57-13-6	consumers	dermal	Long-term exposure	580 mg/kg bw/day
Urea 57-13-6	consumers	oral	Long-term exposure	42 mg/kg bw/day

#### Predicted no-effect concentration (PNEC):

Name of the substance	Compartment	Value
Ammonium nitrate 6484-52-2	Fresh water	0.45 mg/l
Ammonium nitrate 6484-52-2	Marine water	0.045 mg/l
Ammonium nitrate 6484-52-2	Water, intermittent release	4.5 mg/l
Ammonium nitrate 6484-52-2	Water from wastewater treatment plant	18 mg/l
Urea 57-13-6	Fresh water	0.47 mg/l

**Subsection 8.2.  
Exposure controls  
and personal  
protection:**

Appropriate engineering controls:

- provide ventilation in work area,
- eyewash stations with fresh water are required (these places must be clearly marked),
- avoid contact with skin,
- avoid inhalation,

Personal protection:

*Eye/face protection:* Safety glasses/face-shield

*Skin protection:* Wear overalls and suitable boots. In case of accident wear special chemical-resistant overall. Protective gloves (rubber gloves).

*Respiratory protection:* Use facemask.

Environmental Exposure Controls:

Environment exposure control should be performed in accordance with the applicable regulations.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Subsection 9.1.**

**Information on basic physical and chemical properties:**

a) appearance-physical state and colour:

Liquid, colourless

b) odour:

Slight ammonia odour

v) odour threshold:

Data not available

g) pH:

6.7-7.5

d) melting point/freezing point:

-26°C

đ) initial boiling point and boiling range:

107°C

e) flash point:

Not relevant, UAN is not flammable

ž) evaporation rate:

Data not available

z) flammability:

Not flammable

i) upper/lower flammability or explosive limits:

Data not available

j) vapour pressure:

480 Pa

k) vapour density:

Data not available

l) relative density:

28% UAN: 1265-1292 kg/m<sup>3</sup>

30% UAN: 1285-1315 kg/m<sup>3</sup>

32% UAN: 1305-1325 kg/m<sup>3</sup>

lj) solubility:

Highly soluble in water



m) partition coefficient: n-octanol/water:

Data not available

n) auto-ignition temperature:

Not relevant, UAN is not flammable

nj) decomposition temperature:

28% UAN salts formed at -18°C  
30% UAN salts formed at -9°C  
32% UAN salts formed at 0°C

o) viscosity:

28% UAN: 2.08 Pas at 40°C  
30% UAN: 2.57 Pas at 40°C  
32% UAN: 3.36 Pas at 40°C

p) explosive properties:

Not explosive

r) oxidising properties:

Not classified as an oxidising

### Subsection 9.2.

#### Other information:

Nitrogen concentration:

	Nitrogen concentration, %		
	N-NH <sub>3</sub>	N-NO <sub>3</sub>	N-NH <sub>2</sub>
28% UAN	7%	7%	14%
30% UAN	7.2 %	7.2 %	15.6
32% UAN	8%	8%	16%

## SECTION 10. REACTIVITY AND STABILITY

### Subsection 10.1. Reactivity

UAN is stable if kept in original containers in storage areas with natural ventilation and if protected against fire, ignition sources and atmospherilia.

### Subsection 10.2. Chemical stability

Stable under normal conditions. Avoid contact of UAN with nitric acid, as it produces urea-nitrate, which is prone to detonation in the presence of friction and sparks.

### Subsection 10.3. Possibility of hazardous reactions

Decomposition may produce nitrogen oxides (NO, NO<sub>2</sub>...), ammonia and amines. Ammonium nitrate is classified as oxidising substance, and therefore it can react violently with flammable reducing agents.

### Subsection 10.4. Conditions to avoid

-Heating  
- Contamination by inadequate materials.  
- Unnecessary exposure to the atmosphere.  
- Closeness to sources of heat or fire.  
- Welding-hot work or similar works on equipment or in plant where the fertilizer is stored

### Subsection 10.5. Incompatible materials

Ignitable materials, reducing agents, acids, alkalies, chlorates, chlorides, nitrites, permanganates, substances containing metallic powders such as copper, nickel, cobalt, zinc and their alloys.

### Subsection 10.6. Hazardous decomposition products

Decomposition may produce nitrogen oxides (NO, NO<sub>2</sub>...), ammonia and amines.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Subsection 11.1.

#### Information on toxicological effects:

Information on toxicological effects are based on toxicological studies of the product (mixture) and ammonium nitrate and urea as the main component.

a) acute toxicity:

The product is not classified. Justification for non classification: The main component ammonium nitrate does not have to be classified for acute oral, dermal and inhalatory toxicity, as all LD50 values are above the highest value used in classification according to CLP Regulation.

*Data refer to ammonium nitrate:*

-oral (LD<sub>50</sub>): 2950 mg/kg (rat) method: OECD 401

-skin (LD<sub>50</sub>): >5000 mg/kg (rat) method: OECD 402

/source: ECHA-European Chemicals Agency/

*Data refer to Urea:*

-oral (LD<sub>50</sub>): 11 500 mg/kg (mouse) method: OECD 401

-inhalation (LC<sub>50</sub>): 4600 mg/kg (mouse)

-skin (LD<sub>50</sub>): the classification criteria are not met

/source: „IUCLID Dataset“ European Chemicals Bureau/

b) skin corrosion/irritation:

The product is not classified. Justification for non classification: OECD Guideline 404

v) severe eye damage/irritation:

The product is not classified. Justification for non classification: Eye irritation test -OECD Guideline 405/EU-Method B.5.

g) respiratory or skin sensitization:

The substance is not classified as respiratory tract sensitizer

d) germ cell mutagenicity:

Based on available data, the classification criteria are not met.

đ) carcinogenicity:

Based on available data, the classification criteria are not met

e) reproductive toxicity:

Based on available data, the classification criteria are not met

ž) specific target organ toxicity –single exposure:

The product is not classified.

z) specific target organ toxicity – repeated exposure:

The product is not classified.

i) aspiration hazard:

The product is not classified.

## SECTION 12. ECOLOGICAL INFORMATION

<p><b>Subsection 12.1. Toxicity:</b> -<u>aquatic organisms:</u></p>	<p>The product is not classified as hazardous to the environment.</p> <p><i>Data refer to ammonium nitrate:</i></p> <p><u>fish:</u> *LC<sub>50</sub>=447 mg/l, 48h (Cyprinus carpio-carp)</p> <p><u>daphnia:</u> * EC<sub>50</sub>=490 mg/l, 48h</p> <p><u>algae:</u> * EC<sub>50</sub>&gt; 1700 mg/l, 10 days / ECHA-European Chemicals Agency/</p> <p><i>Data refer to Urea:</i></p> <p><u>fish:</u> * LC<sub>50</sub>=6 810 mg/l, 96h (Leuciscus idus)</p> <p><u>daphnia:</u> * LC<sub>50</sub>=10 000 mg/l, 24h -(Daphnia magna) / ECHA-European Chemicals Agency/</p>
<p>-<u>soil organisms:</u></p>	<p>Data not available</p>
<p>-<u>plants and terrestrial organisms:</u></p>	<p>Data not available</p>
<p><b>Subsection 12.2.</b> <b>Persistence and degradability:</b> -biodegradation:</p>	<p>Data not available</p>
<p>-other processes of degradation:</p>	<p>Natural nitrification/denitrification processes in which nitrogen or nitrogen oxides are formed.</p>
<p>- degradation in wastewaters:</p>	<p>Substantially biodegradable in water.</p>
<p><b>Subsection 12.3.</b> <b>Bioaccumulative potential:</b></p>	<p>The substance has no potential for bioaccumulation.</p>
<p><b>Subsection 12.4.</b> <b>Mobility in soil:</b></p>	<p>The substance has low mobility in soil whereas it is water-soluble.</p>
<p><b>Subsection 12.5.</b> <b>Results of PBT and vPvB assessment:</b></p>	<p>The substance is not classified as PBT, or as vPvB.</p>
<p><b>Subsection 12.6. Other adverse effects:</b></p>	<p>May cause changes in pH in the aquatic system. Depending on the local conditions and existing concentration, degradation activity may be inhibited by activated sludge.</p>

## SECTION 13. DISPOSAL CONSIDERATIONS

<p><b>Subsection 13.1.</b> <b>Waste treatment methods:</b></p>	<p>Waste generation should be prevented or reduced to minimum wherever possible. Disposal of this product, its solutions and any by-products must always be performed in accordance with the laws on environmental protection, laws on waste management and all the local requirements. Packaging waste should be recycled.</p>
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## SECTION 14. TRANSPORT INFORMATION

<b>Subsection 14.1. UN number:</b>	Not classified, considered a non-hazardous material as per the international transport codes, i.e. ADR / RID / AND / IMDGA / ICAO.
<b>Subsection 14.2. UN proper shipping name:</b>	Not classified
<b>Subsection 14.3. Transport hazard class(es):</b>	Not classified
<b>Subsection 14.4. Packing group:</b>	Not classified
<b>Subsection 14.5. Environmental hazards:</b>	Not classified
<b>Subsection 14.6. Special precautions for user:</b>	Not classified
<b>Subsection 14.7. Transport in bulk:</b>	Not classified

## SECTION 15. REGULATORY INFORMATION

<b>Subsection 15.1. Safety, health and environmental regulations:</b>	<ul style="list-style-type: none"><li>- Law on chemicals (The Official Gazette of the RS, no. 36/09, 93/12)</li><li>-Law on waste management (The Official Gazette of the RS, no. 36/09 and 88/10)</li><li>-Regulation on classification, packaging, labelling and advertising of chemical and certain article in accordance with Globally harmonized system of classification and labelling (The Official Gazette of the RS, no. 64/10, 26/11 and 105/13)</li><li>- Regulations on storage, packaging and labelling of hazardous waste (The Official Gazette 92/10)</li><li>- Regulations on conditions and manner of collection, transport, storage and treatment of waste which is to be used as secondary raw material or for obtaining energy (The Official Gazette 98/10)</li><li>- Regulations on the contents of safety data sheet (The Official Gazette of the RS, no. 100/11)</li><li>- List of classified substances (The Official Gazette of the RS, no. 48/14)</li><li>- Regulation EC 1907/2006 (REACH)</li></ul>
<b>Subsection 15.2. Chemical safety assessment:</b>	Chemical safety assessment performed for ammonium nitrate and urea, and the relevant Chemical Safety Report (CSR) has been prepared. The relevant information is contained in the sections of the present safety data sheet as well.

## SECTION 16. OTHER INFORMATION

<b>Indication of changes:</b>	<p><u>This safety data sheet has been significantly changed and amended in terms of form and contents in accordance with:</u></p> <p>LAUS GmbH: Report for UAN N 30 in vivo eye irritation, Study Report No. IO-OCDE-PH-12/0518/</p> <p>Main changes to the previous version: Sections 2 and 11 Previous issue: rev.6, 20.10.2015.</p>
<b>List of abbreviations and acronyms:</b>	<p><b>ADNR</b> European Agreement concerning the International Carriage of Dangerous Goods by inland Waterways</p> <p><b>ADR</b> European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p><b>CAS</b> Chemical Abstract Service</p> <p><b>CSR</b> Chemical safety report</p> <p><b>DNEL</b> Derived No Effect Levels</p> <p><b>EC no</b> EC number, European Commission number</p> <p><b>ECHA</b> European Chemicals Agency</p> <p><b>EC<sub>50</sub></b> half maximal effective concentration</p> <p><b>IUCLID</b> International Uniform Chemical Information Database</p> <p><b>IMDG</b> International Maritime Dangerous Goods</p> <p><b>ICAO</b> International Civil Aviation Organization</p> <p><b>LC<sub>50</sub></b> Lethal concentration 50%</p> <p><b>LD<sub>50</sub></b> Lethal Dose 50%</p> <p><b>MAC</b> Maximum allowable concentration</p> <p><b>NOAEL</b> No Observed Adverse Effect Level</p> <p><b>NOEC</b> No Observed Effect Concentration</p> <p><b>OSHA</b> Occupational Safety and Health Administration</p> <p><b>PBT</b> Persistence Bioaccumulation potential and Toxicity</p> <p><b>PNEC</b> Predicted No Effect Concentration</p> <p><b>ppm</b> parts per million</p> <p><b>RID</b> International Rule for Transport of Dangerous Substances by Railway</p> <p><b>REACH</b> Regulation (EC) no.1907/2006 concerning the registration, evaluation and authorisation of chemicals</p> <p><b>STEL</b> Short-Term Exposure Limit</p> <p><b>TWA</b> Time Weighted Averages</p> <p><b>vPvB</b> Very persistent and very bioaccumulative</p>
<b>Literature references and sources of data:</b>	<p>/ ECHA-European Chemicals Agency/ / „IUCLID Dataset“ European Chemicals Bureau/ / OECD Existing Chemicals Database / LAUS GmbH: Izvještaj za UAN N 30 in vivo iritacija oka, Study Report No. IO-OCDE-PH-12/0518/ / Regulation on preventive measures for safe and healthy work when exposed to chemicals (The Off.Gaz. of the RS 106/2009)/ / Transport regulations according to ADR, RID, IMDG, ADN and ICAO including the amendments / / Occupational Medicine, prof.dr.Mirjana Arandelović and prof.dr.Jovica Jovanović, Faculty of medicine, University of Niš, 2009/ / Chemical Safety Report- Ammonium nitrate, 2015/</p>

	/ Chemical Safety Report - Urea, 2015/
<b>List of relevant hazard statements and precautionary statements:</b>	<p><i>Hazard statements – physical hazards:</i>  <b>H272:</b> May intensify fire; oxidizer  <b>H319:</b> Causes serious eye irritation</p> <p><i>Supplemental information:</i>  <b>EUH 210:</b> Safety data sheet available on request</p>
<b>Subsection 16.5. Advice on appropriate training for employees:</b>	Act in accordance with the applicable regulations regarding the occupational safety and health.

*The information indicated is based on the knowledge and experience up to the date of the compilation of the Safety Data Sheet. The purpose of this Safety Data Sheet is to highlight the precautionary and safety measures regarding this product.*

*"HIP-AZOTARA" d.o.o. Pančevo does not assume any responsibility for the information out of the scope of what is written here. The Safety Data Sheet shall not by any means be considered a guarantee for the composition, properties, effects and use of the product for certain purposes.*

*It is the responsibility of the user to inspect and examine the product in order to verify personally whether the product is suitable for a particular purpose. Furthermore, the user is responsible for handling, storage and use of this product in accordance with the applicable laws and regulations ensuring the occupational safety and health and environmental protection.*

*The information in this Safety Data Sheet refers exclusively to our products, and on condition that the products are not used together with the third parties' materials.*