

## SAFETY DATA SHEET

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

# UAN + S

Revision date: 01.10.2024 Version 4.4

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

#### 1.1 Product identifier

Trade name:	Liquid Nitrogen Fertilizer (UAN + S)
Other names:	Urea-Ammonium Nitrate Solution with Ammonium Sulphate
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 Ammonium Sulphate - 01-2119455044-46-0050

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:	Fertilizers
Uses advised against:	None

#### 1.3 Details of the supplier of the safety data sheet

Only Representative:	Zangas Hoch-und Tiefbau GmbH Schwindgasse 5/1/4 1040 Vienna Austria Phone: +43 1 274 16 366  <a href="http://www.zangasgroup.com">www.zangasgroup.com</a> E-mail: <a href="mailto:info@zangasgroup.com">info@zangasgroup.com</a>
Manufacturer:	PrJSC "AZOT" 72, Heroiv Kholodnoho Yaru Str., Cherkassy, Ukraine Phone: +38 0472 39-63-03 +38 0472 39-23-33 URL website: <a href="http://www.azot.ck.ua">http://www.azot.ck.ua</a> Email: <a href="mailto:let@azot.ck.ua">let@azot.ck.ua</a> <a href="mailto:sale@azot.ck.ua">sale@azot.ck.ua</a>
E-mail address of the person responsible for this Safety Data Sheet:	PrJSC "AZOT" REACH Department <a href="mailto:onr@azot.ck.ua">onr@azot.ck.ua</a>
National contact:	Not available

#### 1.4 Emergency telephone number

Emergency phone number:	Phone: +43 1 274 16 366 Opening hours: 9-18 (CET) Languages of the phone service: German, English Phone: + 38 (0472) 39 61 17 Opening hours: 0-24 Languages of the phone service: Ukrainian
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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Product definition:** Mixture

The mixture is not classified as hazardous in accordance with Regulation 1272/2008 (CLP).

#### 2.2 Label elements

Hazard pictograms:	Not applicable
Signal word:	No signal word
Hazard statements:	Not applicable

#### **Precautionary statements**

Prevention:	Not applicable
Response:	Not applicable
Storage:	Not applicable
Disposal:	Not applicable

#### 2.3 Other hazards:

Mixture meets the criteria for PBT according to Regulation (EC) No.1207/2006, Annex XIII	No. P: Not available. B: Not available. T: No.
Mixture meets the criteria for vPvB according to Regulation (EC)	Not available

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No.1207/2006, Annex XIII				
Other hazards which do not result in classification		Not available		
<b>SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>				
<b>3.2 Mixtures</b>				
<b>Description of the mixture:</b> Mixture of urea, ammonium nitrate and ammonium sulphate				
Components	CAS No.	REACH Registration No.	Concentration	Classification
				Regulation (EC) No.1272/2008 [CLP]
Urea	57-13-6	01-2119463277-33-0048	27.0-30.0 %	Not classified
Ammonium nitrate	6484-52-2	01-2119490981-27-0042	35.0-37.0 %	H272 H319
Ammonium sulphate	7783-20-2	01-2119455044-46-0050	8.2-8.6 %	Not classified
<b>Note:</b> The product is treated with corrosion inhibitor. See Section 16 for the full text of the H-statements and R-phrases declared above.				
<b>SECTION 4: FIRST-AID MEASURES</b>				
<b>4.1 Description of first aid measures</b>				
General notes:		Appropriate first-aid equipment should be provided. No action shall be taken involving any personal risk or without suitable training.		
Following eye contact:		Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.		
Following skin contact:		Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.		
Following ingestion:		Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.		
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 first-aiders:		None		
<b>4.2 Most important symptoms and effects, both acute and delayed</b>				
<b>Potential acute health effects</b>				
Eye contact:		No known significant effects or critical hazards		
Inhalation:		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		
Ingestion:		Irritating to mouth, throat and stomach.		
<b>Over-exposure signs/symptoms</b>				
Eye contact:		No specific data.		
Inhalation:		No specific data.		
Skin contact:		No specific data.		
Ingestion:		No specific data.		
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>				
Notes to physician:		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.		
Specific treatments:		No specific treatment		
<b>SECTION 5: FIRE-FIGHTING MEASURES</b>				
<b>5.1 Extinguishing media</b>				
Suitable extinguishing media:		Use extinguishing media suitable for surrounding materials.		
Not suitable extinguishing media:		None		
<b>5.2 Special hazards arising from the substance or mixture</b>				
Hazards from the substance or mixture:		None.		
Hazardous combustion		Decomposition products may include the following materials:		

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products:	carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, amines
<b>5.3 Advice for firefighters</b>	
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.
<b>SECTION 6: ACCIDENTAL RELEASE MEASURES</b>	
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
<p><i>6.1.1 For non-emergency personnel</i>  <u>Protective equipment:</u> 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.</p> <p><i>6.1.2 For emergency responders:</i>          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".</p>	
<b>6.2 Environmental precautions</b>	
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).	
<b>6.3 Methods and material for containment and cleaning up</b>	
<p><i>6.3.1 For containment:</i> Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas.</p> <p><i>6.3.2 For cleaning up:</i> 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.</p> <p><i>6.3.3 Other information</i>          Dispose of via a licensed waste disposal contractor.</p>	
<b>6.4 Reference to other sections</b>	
See section 8 for personal protective equipment and section 13 for waste disposal.	
<b>SECTION 7: HANDLING AND STORAGE</b>	
<b>7.1 Precautions for safe handling</b>	
<p><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.</p> <p><u>Measures to prevent fire:</u> Keep away from heat. Keep away from sources of ignition.</p> <p><u>Measures to prevent aerosol and dust generation:</u> Store in a well ventilated area.</p> <p><u>Measures to protect the environment:</u> Empty containers retain product residue and can be hazardous.</p> <p><u>Advice on general occupational hygiene:</u> 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.</p>	
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	
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: Storage class:	12
Further information on storage conditions:	None
Incompatible products:	Strong acids, strong bases, organic materials, chromates, zinc, copper and nickel.
<b>7.3 Specific end use(s):</b>	None

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

8.1.1 National occupational exposure limit values (urea, ammonium nitrate): Not available

8.1.2 National biological limit values (urea, ammonium nitrate): Not available

8.1.3 PNEC (Predicted No Effect Concentration):

Environmental protection target	PNEC		
	Urea	Ammonium nitrate	Ammonium sulphate
Aqua – freshwater	0.047 mg/L	0.45 mg/L	0.312 mg/L
Aqua – salt/marine water	0.047 mg/L	0.045 mg/L	0.0312 mg/L
Aqua – intermittent releases	No exposure expected	4.5 mg/L	0.53 mg/L
Sediment	No exposure expected	No hazard identified	0.063 mg/kg sediment dw
Soil	No exposure expected	No hazard identified	62.6 mg/kg soil dw
Sewage treatment plant	No exposure expected	18 mg/L	16.18 mg/L
Food chain: oral (secondary poisoning)	No exposure expected	No exposure expected	No exposure expected
Air:	No exposure expected	No hazard identified	Not relevant

## 8.1.4 DNEL

UREA	ACUTE		
	Route	Derived No Effect Level (DNEL)	
		Workers	General population
	Oral	Not applicable	42 mg/kg bw/day
Dermal	580 mg/kg bw/day	580 mg/kg bw/day	
Inhalation	292 mg/m <sup>3</sup>	125 mg/m <sup>3</sup>	
LONG TERM			
Route	Derived No Effect Level (DNEL)		
	Workers	General population	
Oral	Not applicable	42 mg/kg bw/day	
Dermal	580 mg/kg bw/day	580 mg/kg bw/day	
Inhalation	292 mg/m <sup>3</sup>	125 mg/m <sup>3</sup>	

No evidence of local effects is seen in any of the dermal studies performed with urea; there is no evidence of local effects from human studies or from experience of human exposure. Respiratory irritation is not predicted. DNELs for local effects are therefore not relevant and are not calculated for urea.

AMMONIUM NITRATE	Derived No Effect Level (DNEL)		
	Route	Workers	General population
		Oral <sup>1</sup>	Not applicable
	Dermal <sup>1</sup>	21.3 mg/kg bw/day	12.8 mg/kg bw/day
Inhalation <sup>1</sup>	37.6 mg/m <sup>3</sup>	11.1 mg/m <sup>3</sup>	

<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).

AMMONIUM SULPHATE	ACUTE		
	Route	Derived No Effect Level (DNEL)	
		Workers	General population
	Oral	Not applicable	Not applicable
Dermal	Not applicable	Not applicable	
Inhalation	Not applicable	Not applicable	
LONG TERM (Systemic effects)			
Route	Derived No Effect Level (DNEL)		
	Workers	General population	
Oral	Not applicable	6.4 mg/kg bw/day	
Dermal	42.667 mg/kg bw/day	12.8 mg/kg bw/day	

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	Inhalation	11.167 mg/m <sup>3</sup>	1.667 mg/m <sup>3</sup>
Acute/short-term DNELs were not calculated as they are covered by calculation of long-term DNELs. No local dermal or irritating effects were observed in repeated dose studies			
8.1.5 Monitoring procedures: Not available			
<b>8.2 Exposure controls</b>			
8.2.1 Appropriate engineering controls:			
Substance/mixture related measures to prevent exposure during identified uses: The usual precautions for the handling of chemicals must be observed. Before direct contact with the substance use personal protection equipment.			
Technical measures to prevent exposure: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.			
8.2.2 Personal protection equipment:			
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: Hand protection: Other skin protection:	Gloves: leather, butyl rubber and neoprene. 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.		
<b>Advice on personal protection is applicable for high exposure levels. Select proper personal protection based on a risk assessment of the actual exposure situation</b>			
<b>SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>9.1 Information on basic physical and chemical properties</b>			
Appearance:	Colourless liquid		
Odour:	Odourless or mild ammonia odour		
Odour threshold:	Not available		
pH:	7.0-8.5		
Melting point/Freezing point:	- 18-20°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		
<b>9.2 Other information</b>			
<b>SECTION 10: STABILITY AND REACTIVITY</b>			
<b>10.1 Reactivity</b>			
No specific test data related to reactivity available for this product.			
<b>10.2 Chemical stability</b>			
The product is stable.			
<b>10.3 Possibility of hazardous reactions</b>			

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No hazardous reaction when handled and stored according to these provisions (see section 7, handling and storage).		
<b>10.4 Conditions to avoid</b>		
Possible dangerous reactions with other chemicals are unknown; do not mix with other substances. After defreezing, the properties are not changed.		
<b>10.5 Incompatible materials</b>		
Reducing agents, strong acids and bases, metal powders, combustible materials, chromates, zinc, copper and copper alloys, chlorates		
<b>10.6 Hazardous decomposition products</b>		
Carbon monoxide, ammonia (NH <sub>3</sub> ), nitrogen oxides (NO, NO <sub>2</sub> etc.)		
<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>		
<b>11.1 Information on toxicological effects</b>		
11.1.1 Acute toxicity	Oral:	LD50(rats) > 2950mg NH <sub>4</sub> NO <sub>3</sub> / kg; LD50(rats) > 14300mg CO(NH <sub>2</sub> ) <sub>2</sub> / kg
	Dermal:	Not available
	Inhalation:	Not available
11.1.2 Repeated dose toxicity	Oral:	Not available
	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 critical hazards	
11.1.8 Carcinogenicity:	Not available	
<b>SECTION 12: ECOLOGICAL INFORMATION</b>		
<b>12.1 Toxicity</b>		
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	
<b>12.2 Persistence and degradability</b>		
<i>Abiotic degradation:</i>		
Phototransformation/photolysis	Not available	
<i>Biodegradation:</i>	Not available	
<i>Hydrolysis:</i>	Not available	
<b>12.3 Bioaccumulative potential</b>		
Not available.		
<b>12.4 Mobility in soil</b>		
Known or predicted distribution to environmental compartments:	Not available	
Surface tension:	Not available	
Adsorption coefficient:	Not available	
<b>12.5 Results of PBT and vPvB assessment</b>		
Not applicable.		
<b>12.6 Other adverse effects</b> :No known significant effects or critical hazards.		
<b>Remarks:</b> No ecological problems are to be expected when the product is handled and used with due care and attention.		
<b>12.7 Additional information:</b> None		

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**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

13.1.1 Product / Packaging disposal:	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Waste codes / waste designations according to LoW (Commission Decision 2001/118/EC):	06 10 99 Wastes not otherwise specified
13.1.2 Waste treatment-relevant information:	The generation of waste should be avoided or minimised wherever possible.
13.1.3 Sewage disposal-relevant information:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
13.1.4 Other disposal recommendations:	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

**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	IATA
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	–	–	–	–
14.3 Transport hazard class(es)	–	–	–	–
14.4 Packing group	–	–	–	–
14.5 Environmental hazards	No	No	No	No
14.6 Special precautions for user	Not available	Not available	Not available	Not available
Additional information	–	–	–	–

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 use:****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

None of the components are listed

Not applicable

National regulations (country): Not available

**15.2 Chemical safety assessment:**

Not applicable

**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:	v. 3.0: Changes were made to comply with the Guidance on the compilation of safety data sheets (version 1.1) v. 3.1: Changes were made to comply with Article 61 (CLP) v. 4.0: Change of contact details
v. 3.0: 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	
v. 3.1: Page header; 2.1; 16.2	
v. 4.0: Page header; 1.3	
v. 4.1: Page header; 1.3	

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v. 4.2: Page header; 1.3	
v. 4.3: Page header; 1.3, 1.4	
v. 4.4: Page header; 1.4	
<b>16.2 Abbreviations and acronyms:</b>	
<ul style="list-style-type: none"> <li>• ADN - European Agreement concerning the International Carriage of Dangerous Goods on Inland Waterway</li> <li>• ADNR - ADN Rhine</li> <li>• ADR - Agreement on Dangerous Goods by Road</li> <li>• CAS - Chemical Abstracts Service</li> <li>• CLP - Classification, Labelling and Packaging of chemicals</li> <li>• EC - European Commission</li> <li>• IATA - International Air Transport Association</li> <li>• IBC Code - International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk</li> <li>• IMDG - International Maritime Dangerous Goods</li> <li>• LD50 - Lethal Dose</li> <li>• LoW - List of Wastes</li> <li>• MARPOL - International Convention for the Prevention of Pollution From Ships</li> <li>• PBT - Persistent, bioaccumulative, toxic chemical</li> <li>• PJSC - Public Joint-Stock Company</li> <li>• REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals</li> <li>• RID - International Rule for Transport of Dangerous Substances by Railway</li> <li>• UN - United Nations</li> <li>• vPvB - very persistent, very bioaccumulative</li> </ul>	
<b>16.3 Key literature references and sources for data:</b> CSR (Chemical Safety Report), Guidance on safe use etc.	
<b>16.4 Training advice:</b>	In accordance with the local regulations
<b>16.5 Further information:</b>	None
<b>16.6 Full text of classifications [CLP/GHS]:</b>	<i>May intensify fire; oxidiser. (H272)</i> <i>Causes serious eye irritation (H319)</i>