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

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Revision date: 01.05.2020 Version 4.2

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SECTION 1: IDEI	NTIFICATION 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 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: Irene.Nasdala@ebicon.de
Manufacturer:	PrJSC "AZOT" 72, Heroiv Kholodnoho Yaru Str., Cherkasy, Ukraine Tel.: +38 0472 39-63-03 +38 0472 39-23-33 URL website: <u>http://www.azot.ck.ua</u> Email: <u>let@azot.ck.ua</u> <u>sale@azot.ck.ua</u>
E-mail address of the person responsible for this Safety Data Sheet:	PrJSC "AZOT" REACH Department onr@azot.ck.ua
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	
	in accordance with Regulation 1272/2008 (CLP).
2.2 Label elements	Netenstes
Hazard pictograms: Signal word: Hazard statements: <u>Precautionary statements</u>	Not applicable No signal word Not applicable
Prevention: Response: Storage: Disposal:	Not applicable Not applicable Not applicable Not applicable
2.3 Other hazards:	
Mixture meets the criteria for PBT according to Regulation (EC) No.1207/2006, Annex XIII Mixture meets the criteria for vPvB	No. P: Not available. B: Not available. T: No.
according to Regulation (EC)	Not available



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No.1207/2006, Annex	XIII				
Other hazards which of classification	do not result in	Not available			
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS					
3.2 Mixtures Description of the mixture: Mixture of urea, ammonium nitrate and ammonium sulphate					
		REACH		Classification	
Components	CAS No.	Registration No.	Concentration -	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			
Note: The product is t		<i>inhibitor.</i> tements and R-phrases	declared above		
			T-AID MEASURES		
4.1 Description of fir	rst aid measures				
General notes:		any personal risk or	without suitable training	rovided. No action shall be taken involving	
Following eye contact	:	eyelids. Check for a occurs.	nd remove any contac	er, occasionally lifting the upper and lower ot lenses. Get medical attention if irritation	
Following skin contact	t:	shoes. Get medical a	ttention if symptoms oc		
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-aider:	None			
4.2 Most important symptoms and effects, both acute and delayed					
Potential acute healt	h effects				
Eye contact: No known significant effects or critical hazards					
Inhalation:		be delayed following	exposure.	cause a health hazard. Serious effects may	
Skin contact:		-	effects or critical hazar	ds	
Ingestion:		Irritating to mouth, th	roat and stomach.		
Over-exposure signs	s/symptoms				
Eye contact:		No specific data.			
Inhalation:		No specific data.			
Skin contact:		No specific data.			
	Ingestion: No specific data.				
Notes to physician:	immediate medical	cal attention and special treatment needed In case of inhalation of decomposition products in a fire, symptoms may be delayed.			
Specific treatments:		The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment			
			IGHTING MEASURES		
5.1 Extinguishing m	edia				
Suitable extinguishing	media:	Use extinguishing me	edia suitable for surrour	ding materials.	
Not suitable extinguis	hing media:	None			
5.2 Special hazards a	arising from the sub	stance or mixture			
Hazards from the substance or mixture:		None.			
Hazardous combustion	n	Decomposition produ	cts may include the follo	owing materials:	



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AZOT products: carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, amines 5.3 Advice for firefighters Special precautions for fire-fighters: 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 fire-fighters: 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, includin	g 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: Storage class:	12
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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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):

Ammonium nitrate 0.45 mg/L 0.045 mg/L	Ammonium sulphate 0.312 mg/L 0.0312 mg/L
0.045 mg/L	0.0312 mg/L
4.5 mg/L	0.53 mg/L
No hazard identified	0.063 mg/kg sediment dw
No hazard identified	62.6 mg/kg soil dw
18 mg/L	16.18 mg/L
No exposure expected	No exposure expected
No bazard identified	Not relevant

8.1.4 DNEL

		ACUTE				
	Deute	Derived No Effect Level (DNEL)				
	Route	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 ³	125 mg/m ³			
		LONG TERM				
	Route	Derived No Ef	fect Level (DNEL)			
JREA	Route	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 ³	125 mg/m ³			
	Route		fect Level (DNEL)			
	Oral ¹	Workers	General population			
	()ral ¹	Not applicable	12.8 mg/kg bw/d			
			400 // //			
	Dermal ¹	21.3 mg/kg bw/day	12.8 mg/kg bw/day			
	Dermal ¹ Inhalation ¹	21.3 mg/kg bw/day 37.6 mg/m ³	11.1 mg/m ³			
AMMONIUM NITRATE	Dermal ¹	21.3 mg/kg bw/day 37.6 mg/m ³ rd leading to Classificatio e long-term DNEL is cor to the substance do not quirements and chemical ncentration]-response for	11.1 mg/m ³ n and Labeling of the sub sidered sufficient to ensu occur (in accordance with safety assessment: Chapt human health, May 2008 a			
AMMONIUM NITRATE	Dermal ¹ Inhalation ¹ ¹ : As an acute toxicity haza has not been identified, the effects from acute exposure Guidance on information red Characterisation of dose [con B: Hazard Assessment, Drai	21.3 mg/kg bw/day 37.6 mg/m ³ rd leading to Classificatio e long-term DNEL is cor to the substance do not quirements and chemical ncentration]-response for t new chapter B.8 Scope ACUTE	11.1 mg/m ³ on and Labeling of the sub isidered sufficient to ensu occur (in accordance with safety assessment: Chapt human health, May 2008 a of Exposure Assessment,			
AMMONIUM NITRATE	Dermal ¹ Inhalation ¹ ¹ : As an acute toxicity haza has not been identified, the effects from acute exposure Guidance on information red Characterisation of dose [con B: Hazard Assessment, Drat 2010).	21.3 mg/kg bw/day 37.6 mg/m ³ rd leading to Classificatio e long-term DNEL is cor to the substance do not quirements and chemical ncentration]-response for t new chapter B.8 Scope ACUTE	11.1 mg/m ³ n and Labeling of the sub sidered sufficient to ensu occur (in accordance with safety assessment: Chapt human health, May 2008 a			
AMMONIUM NITRATE	Dermal ¹ Inhalation ¹ ¹ : As an acute toxicity haza has not been identified, the effects from acute exposure Guidance on information red Characterisation of dose [con B: Hazard Assessment, Drai	21.3 mg/kg bw/day 37.6 mg/m ³ rd leading to Classificatio e long-term DNEL is cor to the substance do not quirements and chemical ncentration]-response for t new chapter B.8 Scope ACUTE	11.1 mg/m ³ on and Labeling of the sub isidered sufficient to ensu occur (in accordance with safety assessment: Chapt human health, May 2008 a of Exposure Assessment,			
AMMONIUM NITRATE	Dermal ¹ Inhalation ¹ ¹ : As an acute toxicity haza has not been identified, the effects from acute exposure Guidance on information red Characterisation of dose [con B: Hazard Assessment, Drat 2010).	21.3 mg/kg bw/day 37.6 mg/m ³ rd leading to Classificatio e long-term DNEL is cor to the substance do not quirements and chemical ncentration]-response for it new chapter B.8 Scope ACUTE Derived No Ef	11.1 mg/m ³ n and Labeling of the sub sidered sufficient to ensu occur (in accordance with safety assessment: Chapt human health, May 2008 a of Exposure Assessment, fect Level (DNEL)			
AMMONIUM NITRATE	Dermal ¹ Inhalation ¹ ¹ : As an acute toxicity haza has not been identified, the effects from acute exposure Guidance on information red Characterisation of dose [con B: Hazard Assessment, Drat 2010). Route	21.3 mg/kg bw/day 37.6 mg/m ³ rd leading to Classificatio e long-term DNEL is cor to the substance do not quirements and chemical ncentration]-response for it new chapter B.8 Scope ACUTE Derived No Ef Workers	11.1 mg/m ³ in and Labeling of the sub isidered sufficient to ensu occur (in accordance with safety assessment: Chapt human health, May 2008 a of Exposure Assessment, fect Level (DNEL) General population			

NIUM SULPHATE	L	LONG TERM (Systemic effects)		
	Bouto	Derived No	Derived No Effect Level (DNEL)	
	Route	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 ³ 1.667 mg/m ³
	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 availab	le
8.2 Exposure controls	
8.2.1 Appropriate engineering controls:	
	revent exposure during identified uses: The usual precautions for the handling of chemical
	with the substance use personal protection equipment. re: No special ventilation requirements. Good general ventilation should be sufficient to aminants.
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.
	personal protection is applicable for high exposure levels.
	protection based on a risk assessment of the actual exposure situation CTION 9: PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and	
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
9.2 Other information	
	SECTION 10: STABILITY AND REACTIVITY
 10.1 Reactivity No specific test data related to reactivity a 10.2 Chemical stability The product is stable. 10.3 Possibility of hazardous reaction. 	



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No hazardous reaction when handled and	d stored according to these pro	visions (see section 7, handling and storage).	
10.4 Conditions to avoid			
	chemicals are unknown; do n	ot mix with other substances. After defreezing, the properties	
are not changed. 10.5 Incompatible materials			
Reducing agents, strong acids and bas	ses, metal powders, combust	ible materials, chromates, zinc, copper and copper alloys,	
chlorates 10.6 Hazardous decomposition produc	rts		
Carbon monoxide, ammonia (NH ₃), nitrog			
	SECTION 11: TOXICOLOGIC	AL INFORMATION	
11.1 Information on toxicological effect	ts		
	Oral:	LD50(rats) > 2950mg NH ₄ NO ₃ / kg; LD50(rats) > 14300mg CO(NH ₂) ₂ / kg	
11.1.1 Acute toxicity	Dermal:	Not available	
	Inhalation:	Not available	
	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 effect	s or critical hazards	
11.1.8 Carcinogenicity:	Not available		
	SECTION 12: ECOLOGICA	LINFORMATION	
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 assessr			
Not applicable.			
12.6 Other adverse effects :No known s		ards. t is handled and used with due care and attention.	
12.7 Additional information: None			



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	SECTION 13: DISPOS	AL CONSIDERATION:	5	
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:	waste, as defined by	owledge of the supplied EU Directive 91/689/EE	EC.	garded as hazardous
	SECTION 14: TRANS	PORT INFORMATION		
The product is not classified	as dangerous when ca	rried by road (ADR), tra	ain (RID) or maritime (I	MDG)
	ADR/RID	ADN/ADNR	IMDG	ΙΑΤΑ
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 Anne	ex II of MARPOL 73/78	and the IBC Code: No	ot available	
	SECTION 15: REGULA	TORY INFORMATION	N	
15.1 Safety, health and environmental re	gulation/legislation s	pecific for the substa	nce 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	None of the compone	nts are listed		
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 applicable			
The information provided in this act to be			na information on th	
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.			nsportation, disposal, the specific material	
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; v. 3.1: Page header; 2.1; 16.2 v. 4.0: Page header; 1.3 v. 4.1: Page header; 1.3	5.1; 6.1; 6.3; 7.1; 7.2; 7	.3; 8.1; 8.2; 9.1; 9.2; 11	1.1; 12.2; 12.4; 12.7; 13	3.1; 15.1



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v. 4.2: Page header; 1.3 16.2 Abbreviations and acronyms:	
16.2 Abbreviations and acronyms:	
 ADN - European Agreement concerning ADNR - ADN Rhine 	the International Carriage of Dangerous Goods on Inland Waterway
ADR - Agreement on Dangerous Goods	by Road
CAS - Chemical Abstracts Service	·
CLP - Classification, Labelling and Pack	aging of chemicals
EC - European Commission	
IATA - International Air Transport Assoc	iation
IBC Code - International Code for the Co	onstruction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
IMDG - International Maritime Dangerou	is 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, Author	orisation and Restriction of Chemicals
RID - International Rule for Transport of	Dangerous Substances by Railway
 UN - United Nations 	
 vPvB - very persistent, very bioaccumula 	ative
16.3 Key literature references and source	s for data: CSR (Chemical Safety Report), Guidance on safe use etc.
16.4 Training advice:	In accordance with the local regulations
16.5 Further information:	None
16.6 Full text of classifications	May intensify fire; oxidiser. (H272)
[CLP/GHS]:	Causes serious eye irritation (H319)