#### Page 1 of 5 SAFETY DATA SHEET

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

### Calibration gas mixture 2,53% CH<sub>4</sub> (methane) - 97,47% (air)

Date: 19.05.2023

Version 1.0

1. IDENTIFICATION OF THE PRODUCTS AND OF THE COMPANY							
1.1 Product identifier	r						
Trade name:		Calibration gas mixture 2,53% CH <sub>4</sub> (methane) - 97,47% (air)					
Molecular formula:		Not applicable. Mixture					
1.2 Relevant identified uses of the products and uses advised against							
Identified uses:		Laboratory tests					
Uses advice:		Apply calibration gas mixture for its intended purpose and according to the					
		recommendation					
1 3 Details of the may			afaty data shoot				
Manufacturer:		acturer/supplier of the safety data sheet SE "Ukrmetrteststandart"					
Address:		4, Metrologichna str. 03143. Kyiv, Ukraine.					
Communication tools:		4, Metrologichna str. 03143. Kyiv, Ukraine. +38 050 3344 205					
		+38 050 3344 205 Email: V.holevchuk@gmail.com					
1.4 Emergency telepl							
+38 050 3344 205							
138 050 554 205		2. HAZA	RDS IDENTIFICATION				
2.1 Classification of	oroduct accor	ding to Regul	ation (EC) No 1272/2008 [CLP/GHS]				
Gases under pressure,							
2.2 Label elements							
Hazard pictograms:							
1 8							
		$\checkmark$					
Signal word:	Wa	arning					
Hazard statements:		H280 Contains gas under pressure; may explode if heated					
Precautionary statements:		Absent					
Measures for safe handling:		Absent					
Safe storage conditions:		P410+P403 Protect from sunlight. Store in a well-ventilated place					
Additional labeling		Absent					
requirements:							
2.3 Other hazards							
	e does not me	et the criteria f	For PBT or vPvB				
Calibration gas mixture does not meet the criteria for PBT or vPvB <b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>							
3.2 Mixture	0.000						
Name	CAS	EINECS	Classification (CLP/GHS)	Weight (%), content (or			
Ivanic	CAS	EINECS	Classification (CLI/GIIS)	range)			
Air	132259-10-0	630-461-9	Gases under pressure, H280	97,47			
Methane	152257-10-0	030-401-2	Flammable gases 1, H220	<u></u> /т,			
wiethalie	74-82-8	200-812-7	Gases under pressure, H280	2,53			
			RST AID MEASURES				
A 1 Decemination of f	st aid measure		NOT AID MEADURED				
4.1 Description of fir							
	General measures: Product is safe if you follow the instruction for its application.						
In case of eye contact:	in case of eye contact: No side effects are expected from this product. In case of eye irritation: rinse immediately						
T 0.1	with plenty of water. See an ophthalmologist if irritation persists.						
In case of skin contact		No side effects are expected from this product.					
In case of ingestion:		As this product is a gas, refer to the inhalation section.					
In case of inhalation: Remove victim to fresh air and maintain comfortable breathing.							
4.2 Most important symptoms and effects, both acute and delayed							
Acute symptoms: See Section 2 and / or Section 11.							
4.3 Indication of any immediate medical attention and special treatment needed							

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Treatment: symptomatic treatment					
<u>7</u> _1		5. FIRE	FIGHTING MEAS	SURES	
5.1 Extinguishing media					
Suitable extinguishing media:	Use f	ire-exting	guishing equipment	that meets local conditio	ns and the environment.
Unsuitable extinguishing media:					
	Unsuitable extinguishing media: There are no restrictions on the choice of conventional fire extinguishing agents <b>5.2 Special hazards arising from the product</b>				
			ted a pressure inc	rease will occur and th	ne container may hurst
Contains gas under pressure. In a fire or if heated, a pressure increase will occur, and the container may burst. Decomposition products may include Carbon Oxides					
5.3 Advice for firefighters					
Use standard firefighting procedure					
Special protective equipment: wear					atory apparatus.
			TAL RELEASE N		
6.1 Personal precautions, protect					
Remove all incompetent people from			· · ·		entilation.
6.1.1 For non-emergency personn			e appropriate servic		
6.1.2 For emergency responders	1	Use prote	ctive equipment in a	accordance with section	8.
6.2 Environmental precautions					
Does not pose a danger to the envir	onmer	nt with pro	oper use and dispos	al.	
6.3 Methods and material for con	tainm	ent and o	cleaning up		
Stop the leak					
6.4 Reference to other section					
Information about personal precaut	ions -	see Sectio	on 8.		
Information about waste disposal -	see Se	ection 13.			
		7. HANI	DLING AND STO	RAGE	
7.1 Precautions for safe handling					
Protective measures: avoid contac	t with	eves. ski	in, inhalation. Use i	n well-ventilated place.	Use personal protective
equipment.		- ) - 2, 211	,	ii weii veiininee pineer	ere berreiter breiterite
Environmental precautions: adhe	re to 1	the techno	ological regime and	d the rules of storage a	nd transportation of the
product. Effective work of ventilati					
Advice on occupational hygiene: c			rules of personal hy	zgiene	
7.2 Conditions for safe storage, including any incompatibilities					
Storage conditions:		Storage temperature $-30^{\circ}$ C - $+35^{\circ}$ C. Avoid direct sunlight			
Special requirements for packaging:			Hermetically sealed container intended for storing gases under		
special requirements for packaging.			pressure		
Requirements for storage rooms:		Cool, closed well ventilated premises			
Additional information on storage requirements:		Do not store near explosive substances			
7.3 Specific end use(s)	cquire	ments.	Do not store near	explosive substances	
None					
	OCUE	DE CONT	FDALS / DEDSAN	AL PROTECTION	
8.1 Control parameters	USUR		I KOLS / I EKSON	ALINOILCIION	
4	na of 1	hormoful a	ubstances in the		
Maximum permissible concentrations of harmful st air of the working zone			ubstances in the	Methane	OEL - 7000 mg/m <sup>3</sup>
8.2 Exposure controls					
The information in this section contains generic advice and guidance.					
8.2.1 Appropriate engineering controls					
Provide the mechanization and automation of production processes. Production facilities must be equipped with					
general exhaust and local ventilation. Conduct periodic monitoring of methane in the air of the working area					
8.2.2 Individual protection measures, such as personal protective equipment					
espiratory protection: Not required when used appropriately					
Hands protection:					

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Eye protection:	Protective goggles			
Skin cover protection:	Closed protective clothing			
8.2.3 Environmental exposure controls	Closed protective clothing			
Measures to prevent exposure:	Equipment sealing			
9. PHYSICAL AND CHEMICAL PROPERTIES				
9.1 Information on basic physical and chem				
Appearance	Gas			
Colour	Colorless			
Odour	Odorless			
Melting point/freezing point, <sup>0</sup> C	Not applicable			
Boiling point or initial boiling point and boiling	No data available			
range, <sup>0</sup> C				
Flammability	No data available			
Lower and upper explosion limit	No data available			
Flash point, <sup>0</sup> C	Not applicable			
Auto-ignition temperature, <sup>0</sup> C	No data available			
Decomposition temperature, <sup>0</sup> C	Not applicable			
pH	Not applicable			
Kinematic viscosity, mm <sup>2</sup> /s	Not applicable			
Solubility	No data available			
Partition coefficient n-octanol/water (log value	e) No data available			
Vapor pressure	No data available			
Density and/or relative density	Not applicable			
Relative vapor density	No data available			
Particle characteristics	Not applicable			
9.2 Other information				
9.2.1 Information with regard to physical h	azard classes			
Pseudo-critical temperature	-143,2 °C			
9.2.2 Other safety characteristics				
None				
10. ST	ABILITY AND REACTIVITY			
10.1 Reactivity	Not reactive under conditions of storage and transportation			
10.2 Chemical stability	Stable under regular storage and transportation conditions			
10.3 Possibility of hazardous reactions	Subject to conditions of storage and transportation of dangerous			
	reactions does not occur			
10.4 Conditions to avoid	Avoid direct sunlight			
<b>10.5 Incompatible materials</b>	Absent			
0.6 Hazardous decomposition products Carbon oxids				
11. TOXICOLOGICAL INFORMATION				
11.1 Information on hazard classes as defin	ed in Regulation (EC) No 1272/2008			
Clinical performance of acute poisoning	No toxicity			
The most affected organs, tissues, systems	Does not affect			
Acute toxicological indication	Methane - LC50 (15 min) – (1442,738-1443) g/m <sup>3</sup> air (rat)			
Skin corrosion/irritation	Does not irritate the skin			
Serious eye damage/eye irritation	Does not irritate the eyes			
Respiratory or skin sensitization	Not sensitizing			
Germ cell mutagenicity	Not expected to be a germ cell mutagen			
Carcinogenicity	Not expected to cause cancer			
Reproductive toxicity	No toxicity			
STOT - single exposure	No adverse effects expected			

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STOT - repeated exposure	No adverse	effects expected				
Aspiration hazard		No adverse effects expected           Not classification				
<b>11.2 Information on other hazards</b>	100 0105511					
Endocrine disrupting properties	None					
Other information	None					
	. ECOLOGICAL	INFORMATION				
12.1 Toxicity						
Ecotoxicity	The conter	nination of the an	vironment is possible	oir as a result of		
Leotoxicity	releases, p	process flow disr	uption, incompliance e emergency situation	with storage or		
Ecotoxicity values:		-				
Acute toxicity to fish:	Methane -	Methane - LC50 (4 day) - (24,1-147,54) mg/L				
Toxicity to aquatic invertebrates:	Methane -	Methane - LC50 (48 h) – $(14,22-69,43)$ mg/L				
Toxicity to aquatic algae and cyanobacter	ia: Methane -	Methane - EC50 (4 day) – $(7,71-16,5)$ mg/L				
Toxicity to microorganisms:	No data av	No data available				
12.2 Persistence and degradability						
Abiotic Degradation	No data av	ailable				
Biodegradation	No data av	ailable				
12.3 Bioaccumulative potential						
Not determined						
12.4 Mobility in soil						
No data available						
12.5 Results of PBT and vPvB assessme	ent					
Product is not PBT or vPvB						
<b>12.6 Endocrine disrupting properties</b>						
None						
12.7 Other adverse effects						
None						
1.	<b>3. DISPOSAL CON</b>	SIDERATIONS				
13.1 Waste treatment methods						
Proper disposal / product			out in strict acco			
			d local waste disposal			
Waste Norms / waste categories by	According to the European Waste Catalogue, Waste Codes are not product					
European Waste Catalogue EWC /	specific, but application specific. Waste codes should be assigned by the					
AVV		user based on the application for which the product was used.				
Proper disposal / packaging	Packaging must be disposed of in accordance with national, regional and					
	local regulations.					
	4. TRANSPORT I	1		D i t		
The product is transported:	By railway (RID)	By road (ADR)	By marine transport (IMDG)	By air transport (IATA/ICAO)		
14.1 UN number			1956			
14.2 UN proper shipping name		COMPRES	SED GAS, N.O.S.			
14.3 Transport hazard class(es)			2			
14.4 Packing group		Not applicable				
14.5 Environmental hazards		No hazards identified				
14.6 Special precautions for user		No special precautions required				
14.7 Maritime transport in bulk according	5	Not applicable, packaged goods				
to IMO instruments			-			
15	. REGULATORY	INFORMATION				

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15.1 Safety, health and env	ironmental regulations/legislation specific for the product	
1. Regulation (EC) No 1272/	/2008	
2. Regulation (EC) No 2020/	/878	
3. Regulation (EC) No 1907/	/2006	
15.2 Chemical Safety Asses		
Chemical safety assessment	has not been carried for the product	
16. OTHER INFORMATION		
Assignment of safety data sheet	Safety Data Sheet informs downstream users about the hazards of product and ways to prevent its adverse effects on human health and the environment.	
	Safety Data Sheet can be used during custom control, transportation of goods, emergency operations, waste management, development of emergency response plan, briefing, development of special teaching programs, staff qualification, labeling, also can be used as pictorial information and agitation, or product advertising.	
Safety Data Sheet usage	During the development of normative documents concerning occupational safety requirements and environmental protection; as the basis for medical and ecological activities during manufacture, use, storage and transportation of the product, during organization of manufacture and hygienic assessment of working conditions, when importing or exporting as part of support documentation.	
Training instructions	Read carefully the Safety Data Sheet before using this product.	
Uses advised against when using product	Information applies to a specific product. It may be invalid in case this product is used together with any other materials or in any other production process. A consumer of products is responsible for the consequences of its use in specific purposes.	
Abbreviations	OEL – occupational exposure limit; LC50 - average lethal concentration; EC50 - effective concentration; PBT or vPvB - persistent bioaccumulative or very persistent very bioaccumulative substance.	
Information sources	Hazardous Substances Database (HSDB) of the US National Library of Medicine. ECHA database of registered substances. GESTIS database of environmental substances.	

General director

D.A.Sabatovych