### Page 1 of 6 **SAFETY DATA SHEET** according to the COMMISION REGULATION (EU) № 453/2010 **Turbine oil «BORA B» Turbine Oil ISO VG 46** (BORA Turbine Oil 46)

Date: 07.10.19

Version 1.0

### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1. 1021(1					
1.1 Product identifier	1				
Trade name:		Turbine oil «BORA B» Turbine Oil ISO VG 46 (BORA Turbine Oil 46)			
REACH registration number:	Not applicable. Mixture				
Molecular formula:	Not applicable	Not applicable. Mixture			
<b>1.2 Relevant identified uses</b>	of the substance	or mixture and	d uses advised against		
Identified uses:	Used as a lubricating oil for steam and gas turbochargers with or without gearbox; for				
	lubrication to gears				
Uses advice:	Apply the oil f	for its intended	purpose and according to the recom	mendation	
<b>1.3 Details of the manufactu</b>			sheet		
Manufacturer:	«Bora B» LLC				
Address:	Larisa Rudenko Str., 6A, Kyiv, Ukraine				
Communication tools:	+380-44-496-2				
	Email: bora-bo	@ukr.net			
1.4 Emergency telephone nu	ımber				
+380-67-408-21-19					
	2. HA	ZARDS IDEN	TIFICATION		
2.1 Classification of product	according to Re	gulation (EC)	No 1272/2008 [CLP/GHS]		
Reproductive toxicity 1, H36		0 ( )	<u> </u>		
Carcinogenicity 1, H350					
2.2 Label elements					
Hazard pictograms:					
Signal word:	Danger				
Hazard statements:	H350	May cause	e cancer		
	H360		age fertility or the unborn child		
Precautionary statements:	P201	Obtain spe	ecial instructions before use		
	P202	Do not ha	Do not handle until all safety precautions have been read and		
		understoo			
	P281		nal protective equipment as required		
Measures for safe handling:	P308+P313			ttention	
Safe storage conditions:	P405	Store lock	ed up		
Additional labeling	P501		f contents/container to special organ		
requirements:			disposal of hazardous wastes in a	accordance with the	
		requireme	nts of national legislation		
2.3 Other hazards					
The oil does not meet the crite					
3	. COMPOSITIO	N/INFORMA	FION ON INGREDIENTS		
3.1 Product					
The oil is a mixture of organi	c substances				
3.2 Components					
For the mixture classification	an actual content	of hazardous co	omponents is applied.		
Hazardous components					
Name	EINECS	CAS	Classification (CLP/GHS)	Weight (%),	
				content (or range)	
Lubricating oils (petroleum),	276-738-1	72623-87-1	Carcinogenicity 1, H350	Not less 50	
				•	

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# (BORA Turbine Oil 46)

Date: 07.10.19

Oil-based					
				Skin irritation 2, H315	
				Serious eye damage 1, H318	
Additive packages		Mixture		Reproductive toxicity 1, H360	Not above 2
				Aquatic Acute 1, H400	
				Aquatic Chronic 1, H410	
		4. ]	FIRST AID M	IEASURES	
4.1 Description of first a	id measur	es			
General measures:				a sheet. Do not leave the victim unatte	
In case of eye contact:	Wash your eyes with plenty of warm water for at least 15 minutes, raising the upper and				
	lower eyelids. Seek medical advice				
In case of skin contact:	Remove contaminated clothing. Immediately wash contaminated areas of the body with				
	soap and water, as well as areas that may be contaminated. Dispose of contaminated				
<b>T C : :</b>	clothing	1.0	<u> </u>		$\rightarrow$ 0 1 $\cdot$ 1 $\cdot$
In case of ingestion:	•	Rinse your mouth. Give plenty of water (only if the victim is conscious). Seek immediate medical attention. Do not induce vomiting			
In case of inhalation:				symptoms do not pass or are in d	loubt, seek medical
				al attention if there is an irritation of t	
	dizziness,	nausea, or	the victim is i	n an unconscious state. At stopping l	breathing - artificial
	breathing	"mouth to 1	mouth"		
4.2 Most important sym	ptoms and				
Acute symptoms:			tion 2 and / or		
4.3 Indication of any im		edical atter	ntion and spe	cial treatment needed	
Treatment: symptomatic	treatment				
		5. F I F	KEFIGHTING	G MEASURES	
5.1 Extinguishing media					
<b>5.1 Extinguishing media</b> Suitable extinguishing media				S MEASURES shing foam, flame retardant powde	r, sand, soil, spray
Suitable extinguishing me	edia:	Carbon dio water	xide, extingui		r, sand, soil, spray
Suitable extinguishing me Unsuitable extinguishing	edia:	Carbon dio water Strong wate	xide, extingui er jet		r, sand, soil, spray
Suitable extinguishing me Unsuitable extinguishing <b>5.2 Special hazards aris</b>	edia:	Carbon dio water Strong wate ne substance	exide, extingui er jet e <b>r or mixture</b>	shing foam, flame retardant powde	r, sand, soil, spray
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Suitable extinguishing me Unsuitable extinguishing <b>5.2 Special hazards aris</b> Carbon oxide, carbon dio <b>5.3 Advice for firefighte</b>	edia:	Carbon dio water Strong wate ne substance nposition pr	exide, extingui er jet e <b>e or mixture</b> roducts are for	shing foam, flame retardant powde	
Suitable extinguishing me Unsuitable extinguishing <b>5.2 Special hazards aris</b> Carbon oxide, carbon dio <b>5.3 Advice for firefighte</b> Use standard firefighting	edia:	Carbon dio water Strong wate ne substance nposition prosition prositi prosition prosition prosition prosit	exide, extingui er jet e <b>e or mixture</b> roducts are for	shing foam, flame retardant powde	
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surface water or groundwater. Prevention of product intrusion into the sewage and drainage system should be avoided. Inform the relevant service in case of emergency foreclosure of the product in the environment.

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

Avoid contact with spilled material.

<u>Spillage into a land</u>: stop leak if it is possible without risk. Do not touch or walk on the spilled material. Eliminate all sources of ignition, if it not associated with risk. *Small spillage*: collect spilled material with soil, sand or other non-combustible material, and place in a sealed container for further disposal. *Large spillage*: remove larger spills using a vacuum truck.

<u>Spillage into a watercourse</u>: stop leak if it is possible without risk. Limit the spill immediately with boons. Pick up the material from a water surface by removing a slick or using a suitable absorbent.

Keep containers closed and disposed of in accordance with all applicable environmental regulations.

#### 6.4 Reference to other section

Information about personal precautions - see Section 8.

Information about waste disposal - see Section 13.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

**Protective measures:** Do not inhale the dust. Do not allow product to get into eyes, skin or clothing. Use a local ventilation system or take other technical measures to prevent the dust in the air. Use personal protective equipment. Spilled material can be slippery.

*Measures to prevent fire*: protect from open fire, sparks, and hot surfaces. No smoking. Take preventive measures against static discharges. Fire extinguishers should be kept in a safe place.

**Environmental precautions:** adhere to the technological regime and the rules of storage and transportation of the product. Effective work of ventilation systems.

Advice on occupational hygiene: Avoid eating and drinking in the working area. Remove contaminated clothing before entering the eating areas. Wash hands and face thoroughly after handling with product.

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

Storage conditions	Store in a dry and well-ventilated place. Away from sources of ignition
Special requirements for packaging:	Hermetically sealed steel container
Requirements for storage rooms:	Closed premises
Additional information on storage	Prevent unauthorized access
requirements:	

#### 7.3 Specific end use(s)

None

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Maximum permissible concentrations of harmful	Lubricating oils (petroleum), oil-based	DNEL – 2,73
substances in the air of the working zone	Lubicating ons (perforeuni), on-based	mg/m³
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. Ensure tightness of equipment and containers. Production facilities must be equipped with general exhaust and local ventilation. Conduct periodic monitoring of volatile components in the air of the working area

8.2.2 Individual protection measures, such as personal protective equipment		
Respiratory protection:	When using mask or semi-mask: filter for gases or vapors of organic compounds (boiling	
	point> 65 ° C, e.g. EN 14387 Type A)	
Hands protection:	Gloves that are resistant to chemicals in standard EN 374: protective gloves against the	
	effects of chemicals (nitric-rubber, butyl rubber, PVC, neoprene, rubber) are used. When	
	extending a long or repeated contact, it is recommended to use gloves with protection class	

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	3 or higher	r.		
Eye protection:		otective goggles. Goggles must comply with EN 166 or similar document.		
Skin cover protection:		tive antistatic clothing to minimize skin contact.		
8.2.3 Environmental exp				
Measures to prevent expo			e quantities of product to come into contact to soil, sewers and	
······ ···· · · · · · · · · · · · · ·		ound-water.	, , , , , , , , , , , , , , , , , , ,	
			D CHEMICAL PROPERTIES	
9.1 Information on basic	e physical a	nd chemical pr	operties	
Appearance			Liquid	
Odor			Specific	
Odor threshold			No data available	
pH			Not applicable	
Melting point/range, <sup>0</sup> C			No data available	
Initial boiling point/range, <sup>0</sup> C			No data available	
Flash point, <sup>0</sup> C			> 220	
Evaporation rate			No data available	
Inflammation temperature	e, <sup>0</sup> C		No data available	
Lower-Upper flammabilit		ive limits	No data available	
Vapor pressure	• 1 ***		No data available	
Vapor density (depending	on the pres	ssure)	No data available	
Density, g/sm <sup>3</sup>		,	0,84 (15°C)	
Solubility in water			Not solubility	
Partition coefficient: n-oc	tanol / wate	r	No data available	
Auto-ignition temperature		-	No data available	
Decomposition temperatu			No data available	
Viscosity, mm <sup>2</sup> /s	10, 0		48 (40°)	
Explosive properties			Non-explosive	
9.1 Other information				
None				
Tone		10 STARILI	TY AND REACTIVITY	
10.1 Reactivity		Not reactive		
10.1 Reactivity 10.2 Chemical stability			regular storage, use and transportation conditions.	
10.2 Chemical stability 10.3 Possibility of hazar			ir if use, transportation and storage conditions are met	
reactions	uous	will not occu	in it use, transportation and storage conditions are met	
10.4 Conditions to avoid		Avoid heat, sparks, open flames and other sources of ignition		
10.5 Incompatible mater		Strong alkyls and acids		
10.6 Hazardous decomp		Under the conditions of application, storage and transportation, the product		
products	05101011	does not decompose		
P-04400			OGICAL INFORMATION	
11.1 Information on tox				
			near May damage fortility or the unham shild	
Clinical performance of a	cute	May cause ca	ncer. May damage fertility or the unborn child	
poisoning	4	C1-:	mankanas	
The most affected organs,	, ussues,	Skin, mucous	memoranes	
systems	tion	I uhnigating -	is (notroloum) oil based ID (200,2000) mother (not)	
Acute toxicological indica	ation	•	ils (petroleum), oil-based - $LD_{50}$ –(300-2000) mg/kg (rat)	
Strin compaign limitation			tages - $LD_{50}$ - (300-2000) mg/kg (rat)	
Skin corrosion/irritation	mitation	The skin may be slightly irritated		
Serious eye damage/eye i	rritation	The eyes may	be slightly irritated	

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D 1 1 1 1 1			
Respiratory or skin sensitization	Not sensitizing		
Germ cell mutagenicity	Not expected to be a germ cell mutagen.		
Carcinogenicity	Category 1. May cause cancer		
Reproductive toxicity	Category 1. May damage fertility or the unborn child		
STOT - single exposure	No adverse effects expected.		
STOT - repeated exposure	No adverse effects expected.		
Aspiration hazard	Not classification		
	12. ECOLOGICAL INFORMATION		
<b>12.1 Toxicity for environment:</b>			
Ecotoxicity	The contamination of the environment is possible: atmosphere, waters and soils as a result of spills, releases, process flow disruption, incompliance with storage or transportation regulations, the emergency situations and accidents		
Ecotoxicity values:			
Acute toxicity to fish:	Lubricating oils (petroleum), oil-based - LL50 (4 days) – 100 mg/l		
Toxicity to aquatic invertebrates:	Lubricating oils (petroleum), oil-based - LL50 (48 h) - 10 g/l		
Toxicity to aquatic algae and cyanobacteria:	No data available		
Toxicity to microorganisms:	Lubricating oils (petroleum oil-based - NOEL (10 min) > 1,93 mg/l		
12.2 Persistence and degradabilit			
Abiotic Degradation	No data available		
Biodegradation	No data available		
12.3 Bioaccumulative potential			
Not determined			
12.4 Mobility in soil			
No data available			
12.5 Results of PBT and vPvB ass			
The oil doesn't contain any PBT or	vPvB constituent		
12.6 Other adverse effects			
None			
	13. DISPOSAL CONSIDERATIONS		
13.1 Waste treatment methods			
Proper disposal / product	Waste disposal must be carried out in strict accordance with the requirements of		
	national, regional and local waste disposal legislation. Incineration under approved conditions and with continuous control in furnaces is the preferred disposal method.		
Waste Norms / waste categories	According to the European Waste Catalogue, Waste Codes are not product		
by European Waste Catalogue EWC / AVV	specific, but application specific. Waste codes should be assigned by the 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.		
	14. TRANSPORT INFORMATION		
The product is transported:	17, IMANOI UNI INFORMATION		
By railway (RID)	The product is not considered as dangerous goods under TDG regulations		
By road (ADR)	The product is not considered as dangerous goods under TDG regulations The product is not considered as dangerous goods under TDG regulations		
By marine transport (IMDG)	The product is not considered as dangerous goods under TDG regulations The product is not considered as dangerous goods under TDG regulations		
By air transport (IATA/ICAO)	The product is not considered as dangerous goods under TDG regulations		
14.1 UN number	none		
14.2 UN proper shipping name	none		
or proper simpping nume			

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14.3 Transport hazard class	(es) none
14.4 Packing group	none
14.5 Environmental hazards	
14.6 Special precautions for	
	15. REGULATORY INFORMATION
15 1 S-f-4- h 14h	
15.1 Safety, nealth and envir 1. Regulation (EC) No 1272/2	ronmental regulations/legislation specific for the substance
2. Regulation (EC) No 453/20 3. Regulation (EC) No 1907/2	
15.2 Chemical Safety Assess	
	as not been carried for the product
Chemical safety assessment in	16. OTHER INFORMATION
	10. OTHER INFORMATION
	Safety Data Sheet informs downstream users about the hazards of products 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.
	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.
	Read carefully the Safety Data Sheet before using these products.
	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
	product is responsible for the consequences of its use in specific purposes.
	$LD_{50}$ – lethal dose;
	DNEL - the minimum level of influence is set;
	LC50 - average lethal concentration;
	NOEC - no observed effect concentration
	EC50 - effective concentration;
	PBT or vPvB - persistent bioaccumulative or very persistent very bioaccumulative
	substance.
	The Hazardous Substances Database (HSDB) of the US National Library of Medicine.
	ECHA database of registered substances.
	GESTIS database of environmental substances.