Safety Data Sheet

According to Regulation (EC) No. 453/2010

SECTION 1: Identification of 1.1 Product identifier Product Form Product Name	the substance/mixture and of the compan : Mixture	y/undertaking	
Product Form	: Mixture		
	: Mixture		
Product Name			
	: TIGER CIRCULATING OIL 1	00	
Product Code	: 1724		
Product Group	: Blend		
1.2 Product identifier			
1.2.1. Relevant identified uses			
Main use category	: Industrial use, Professional us	e,Consumer use	
Industrial/Professional use spec.	: Non-dispersive use Used in c	losed systems	
Function or use category	: Lubricants and additives		
1.2.2. Uses advised against No additional information availab	le		
1.3 Details of the supplier of	of the safety data sheet		
Riyadh14371-6749- Saudi Arabinfo@blacktiger.com.sa1.4Details of the supplier of			
Emergency number	: +966 11 438 2902		
SECTION 2: Hazards identif	cation		
2.1 Classification of the su	ostance or mixture		
Classification according to Re	gulation (EC) No. 1272/2008 [CLP] Show		
AquaticChronic3 H412 Full text of H-phrases: see sectio	n 16		
Classification according to Dir	ective 67/548/EEC or 1999/45/EC		
R52/53 Full text of R-phrases: see sectio	n 16		
Adverse physicochemical, hun No additional information availab	nan health and environmental effects e		
2.2 Label elements			
Labelling according to Regula	tion (EC) No. 1272/2008 [CLP]		
Signal word (CLP)		with long locting offects	
Hazard statements (CLP) Precautionary statements (CLP)		children P273 - Avoid release to the enviror dance with local/regional/national/internation	
EUH phrases		e(90-30-2). May produce an allergic reaction	-
Child-resistant fastening Tactile warning	: No : No	· –	
2.3 Other hazards			

2.3 Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1 **Substances**

Not applicable

Mixture 3.2

Name	Product identifier	%	Classification according 1272/2008 [CLP]	to Regulation (EC) No.
Solvent naphtha (petroleum), heavy aromatic	(CAS No) 64742-94-5. (EC no) 265-198-5. (EC index no) 649-424-00-3	0,1-0,99	STOT SE 3, H336. Tox. 1, H304 Chronic 2, H411	Asp. Aquatic
alkylphenol	(CAS No) 128-39-2 (EC no) 204-884-0. (REACH-no) 01-2119490822-33	0,1-0,99	Skin Irrit. 2, H315 Acute 1, H400 1, H410	Aquatic Aquatic Chronic
Aryl amine	(CAS No) 90-30-2 (EC no) 201-983-0	0,1-0,24	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400	Skin Sens. 1, H317 Aquatic Chronic 1, H410
Naphthalene	(CAS No) 91-20-3 (EC no) 202-049-5 (EC index no) 601-052-00-2	0,1-0,24	Acute Tox. 4 (Oral), H302 Acute 1, H400	Carc. 2, H351. Aquatic Aquatic Chronic 1, H410

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures	
First-aid measures after inhalation	Not expected to require first aid measures.
First-aid measures after skin contact	Wash skin with mild soap and water.
First-aid measures after eye contact	In case of eye contact, immediately rinse with clean water for 10-15 minutes.
First-aid measures after ingestion	2 Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.
4.2 Most important symptoms and ef	fects, both acute and delayed
Symptoms/injuries after inhalation	 Not expected to present a significant inhalation hazard under anticipated conditions of use.
Symptoms/injuries after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal
Symptoms/injuries after eye contact	 Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/injuries after ingestion	 Not expected to present a significant ingestion hazard under anticipated conditions of use.
4.3 Indication of any immediate medi	cal attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1 Extinguishing media	
Suitable extinguishing media	: Water fog. Foam. Powder. Dry chemical product.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2 Special hazards arising from the	substance or mixture
No additional information available	
5.3 Advice for firefighters	
Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protecti
SECTION 6: Accidental release measu	ures
6.1 Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Wear suitable protective clothing and gloves.
6.1.2. For emergency responders	
Protective equipment	: Wear suitable protective clothing and gloves.
6.2 Environmental precautions	
	Notify authorities if product enters sewers or public waters.
6.3 Methods and material for contain	ment and cleaning up
For containment	: Impound and recover large spill by mixing it with inert granular solids.
Methods for cleaning up	: Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.
Other information	: Spill area may be slippery. Use suitable disposal containers.
6.4 Reference to other sections	
No additional information available	

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SECTION 7: Handling and storage		
7.1 Precautions for safe handling		
Precautions for safe handling Handling temperature Hygiene measures	 Avoid all unnecessary exposure. Both local exhating required. < 40°C Wash hands and other exposed areas with mild stand when leaving work. 	-
7.2 Conditions for safe storage, includ	ling any incompatibilities	
Storage temperature	: < 40°C	
Storage area	: Store in dry, cool, well-ventilated area.	
7.3 Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/perso	nal protection	
8.1 Control parameters		
Naphthalene (91-20-3)		_
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m3)	15 mg/m3
Austria	MAK (mg/m3)	50 mg/m3
Belgium	Limit value (mg/m3)	50 mg/m3
Belgium	Short time value (mg/m3)	53 mg/m3
Bulgaria	OEL TWA (mg/m3)	50 mg/m3 8h
Bulgaria	OEL STEL (mg/m3)	75 mg/m3 15 min.
France	VME (mg/m3)	50 mg/m3
Germany	TRGS 900 Occupational exposure limit value (mg/ m3)	50 mg/m3
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m3)	10 mg/m3
Italy - Portugal - USA ACGIH	ACGIH STEL (mg/m3)	15 fibers/cm3
The Netherlands	MAC TGG 8H (mg/m3)	50 mg/m3
The Netherlands	MAC TGG 15MIN (mg/m3)	80 mg/m3
United Kingdom	WEL TWA (mg/m3)	50 mg/m3
Denmark	Grænseværdie (kortvarig) (mg/m3)	50 mg/m3
Finland	HTP-arvo (8h) (mg/m3)	5 mg/m3
Finland	HTP-arvo (15 min)	100 mg/m3

Additional Information

: 5 mg/m3 for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

8.2 Exposure controls

Personal protective equipment

Hand protection Skin and body protection Respiratory protection : Safety glasses. Gloves.



- : Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm.
- : No special clothing/skin protection equipment is recommended under normal conditions of use. No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

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SECTION 9: Physical and chemical properties		
9.1 Information on basic physical and ch		
Physical state	: Liquid.	
Appearance	Liquid.	
Colour	· Yellow-brown	
Odour	Characteristic	
Odour threshold	No data available.	
Н	No data available.	
Relative evaporation rate (butylacetate=1)	No data available.	
Melting point	No data available.	
Freezing point	No data available.	
Boiling point	No data available.	
Flash point	: >244 °C @ ASTM D92	
Self ignition temperature	No data available.	
Decomposition temperature	No data available.	
Flammability (solid, gas)	No data available.	
Vapour pressure	No data available.	
Relative vapour density at 20 °C	No data available.	
Relative density	No data available.	
Density	 888 kg/m3 @15°C 	
Solubility	Slightly soluble, the product remains on the water surface.	
Log Pow	No data available.	
Viscosity, kinematic	: 98 mm2/s @ 40°C	
Viscosity, dynamic	No data available.	
Explosive properties	No data available.	
Oxidising properties	No data available.	
Explosive limits	No data available.	
9.2 Other information		
No additional information available		
SECTION 10: Stability and reactivity		
10.1 Reactivity		
None under normal conditions.		
10.2 Chemical stability		
Stable under normal conditions.		
10.3 Possibility of hazardous reactions		
None under normal conditions.		
10.4 Conditions to avoid		
No data available.		
10.5 Incompatible materials		
Strong oxidizers. acids. Bases.		
10.6 Hazardous decomposition products		
None under normal conditions.		
SECTION 11: Toxicological information		
11.1 Information on toxicological effects		
Acute toxicity	: Not classified	
TIGER CIRCULATING OIL 100		
LD50 oral rat	2600 mg/kg	
LD50 dermal rabbit	> 2500 mg/kg	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	: Not classified : Not classified	
Aspiration hazard	: Not classified	
กอุทเลแบบ และลเน		

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SECTION 12: Ecological information	
12.1 Toxicity	
Ecology - general	: Harmful to aquatic life with long lasting effects.
Naphthalene (91-20-3)	
LC50 fish 1	< 10 mg/l 96h
LC50 fish 2	0,51 mg/kg
LC50 other aquatic organisms 1	48h, Daphnia
EC50 Daphnia 1	3,4 mg/l
EC50 Daphnia 2	< 10 mg/l
12.2 Persistence and degradability	
TIGER CIRCULATING OIL 100	
Persistence and degradability	Not soluble in water, so only minimally biodegradable.
Naphthalene (91-20-3)	
Persistence and degradability	Inherently biodegradable.
12.3 Bioaccumulative potential	
No additional information available	
12.4 Mobility in soil	
No additional information available	
12.5 Results of PBT and vPvB assessment	
No additional information available	
12.6 Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
SECTION 13: Disposal considerations	
13.1 Waste treatment methods	
	: Dispose in a safe manner in accordance with local/national regulations
13.1 Waste treatment methods	: Dispose in a safe manner in accordance with local/national regulations
13.1Waste treatment methodsAdditional information	
13.1Waste treatment methodsAdditional informationSECTION 14: Transport information	
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 13.1 Waste treatment methods Additional information SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / / 14.1 UN number Not regulated for transport 14.2 UN proper shipping name Not Applicable 	
 13.1 Waste treatment methods Additional information SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / / 14.1 UN number Not regulated for transport 14.2 UN proper shipping name Not Applicable 14.3 Transport hazard class(es) 	
 13.1 Waste treatment methods Additional information SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1 UN number Not regulated for transport 14.2 UN proper shipping name Not Applicable 14.3 Transport hazard class(es) Not applicable. 14.4 Packing group 	
 13.1 Waste treatment methods Additional information SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1 UN number Not regulated for transport 14.2 UN proper shipping name Not Applicable 14.3 Transport hazard class(es) Not applicable. 	
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 13.1 Waste treatment methods Additional information SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1 UN number Not regulated for transport 14.2 UN proper shipping name Not Applicable 14.3 Transport hazard class(es) Not applicable. 14.4 Packing group Not applicable 14.5 Environmental hazards Other information 14.6 Special precautions for user 	ADN
 13.1 Waste treatment methods Additional information SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / / 14.1 UN number Not regulated for transport 14.2 UN proper shipping name Not Applicable 14.3 Transport hazard class(es) Not applicable. 14.4 Packing group Not applicable 14.5 Environmental hazards Other information 14.6 Special precautions for user 14.6.1 Overland transport 	ADN
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 13.1 Waste treatment methods Additional information SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / / 14.1 UN number Not regulated for transport 14.2 UN proper shipping name Not Applicable 14.3 Transport hazard class(es) Not applicable. 14.4 Packing group Not applicable 14.5 Environmental hazards Other information 14.6 Special precautions for user 14.6.1 Overland transport 	ADN
 13.1 Waste treatment methods Additional information SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / / 14.1 UN number Not regulated for transport 14.2 UN proper shipping name Not Applicable 14.3 Transport hazard class(es) Not applicable. 14.4 Packing group Not applicable 14.5 Environmental hazards Other information 14.6 Special precautions for user 14.6.1 Overland transport No Additional Information Available 14.6.2 Transport by sea 	ADN
 13.1 Waste treatment methods Additional information SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / / 14.1 UN number Not regulated for transport 14.2 UN proper shipping name Not Applicable 14.3 Transport hazard class(es) Not applicable. 14.4 Packing group Not applicable 14.5 Environmental hazards Other information 14.6 Special precautions for user 14.6.1 Overland transport No Additional Information Available 14.6.2 Transport by sea No Additional Information Available 	ADN
 13.1 Waste treatment methods Additional information SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / / 14.1 UN number Not regulated for transport 14.2 UN proper shipping name Not Applicable 14.3 Transport hazard class(es) Not applicable. 14.4 Packing group Not applicable 14.5 Environmental hazards Other information 14.6 Special precautions for user 14.6.1 Overland transport No Additional Information Available 14.6.2 Transport by sea No Additional Information Available 14.6.3 Air transport 	ADN
 13.1 Waste treatment methods Additional information SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / / 14.1 UN number Not regulated for transport 14.2 UN proper shipping name Not Applicable 14.3 Transport hazard class(es) Not applicable. 14.4 Packing group Not applicable 14.5 Environmental hazards Other information 14.6 Special precautions for user 14.6.1 Overland transport No Additional Information Available 14.6.3 Air transport No Additional Information Available 	ADN
 13.1 Waste treatment methods Additional information SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / / 14.1 UN number Not regulated for transport 14.2 UN proper shipping name Not Applicable 14.3 Transport hazard class(es) Not applicable. 14.4 Packing group Not applicable 14.5 Environmental hazards Other information 14.6 Special precautions for user 14.6.1 Overland transport No Additional Information Available 14.6.3 Air transport No Additional Information Available 14.6.4 Inland waterway transport 	ADN : No supplementary information available

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

:

15.1.1 EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

15.1.2 National regulations

No Additional Information Available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information.

ACGIH: American Conference of Governmental Industrial Hygienists
TWA: Time Weighted Average
TLV: Threshold Limit Value
ASTM: American Society for Testing and Materials
ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
IMDG: International Maritime Dangerous Goods
ICAO: International Civil Aviation Organization
IATA: International Air Transport Association
STEL: Short Term Exposure Limit
LD50: median Lethal Dose for 50% of subjects
ATE: acute toxicity estimate

Other information

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H336	May cause drowsiness or dizziness
R22	Harmful if swallowed
R38	Irritating to skin
R40	Limited evidence of a carcinogenic effect
R43	May cause sensitisation by skin contact
XI	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.