

TIGER CIRCULATING OIL 460

Safety Data Sheet

According to Regulation (EC) No. 453/2010

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Version:1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Form : Mixture
Product Name : TIGER CIRCULATING OIL 460
Product Code : 1728
Product Group : Blend

1.2 Product identifier

1.2.1. Relevant identified uses

Main use category : Industrial use,Professional use,Consumer use
Industrial/Professional use spec. : Non-dispersive use Used in closed systems
Function or use category : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3 Details of the supplier of the safety data sheet

BLACK TIGER
3463 Old Al-Kharj Hyt Road, Unit 1
Riyadh 14371-6749- Saudi Arabia
info@blacktiger.com.sa

1.4 Details of the supplier of the safety data sheet

Emergency number : +966 11 438 2902

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Show

AquaticChronic3 H412
Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

R52/53
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : -
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP) : P102 - Keep out of reach of children P273 - Avoid release to the environment P501 - Dispose of contents/container in accordance with local/regional/national/international regulations
EUH phrases : EUH208 - Contains Aryl amine(90-30-2). May produce an allergic reaction
Child-resistant fastening : No
Tactile warning : No

2.3 Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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 : Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.

4.2 Most important symptoms and effects, 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 use.
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 medical 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 protection.

SECTION 6: Accidental release measures

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

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment 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 : Avoid all unnecessary exposure. Both local exhaust & general room ventilation are usually required.
- Handling temperature : < 40°C
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

7.2 Conditions for safe storage, including 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/personal 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 : Safety glasses. Gloves.



- Hand protection : Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm.
- Skin and body protection : No special clothing/skin protection equipment is recommended under normal conditions of use.
- Respiratory protection : 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 chemical properties.

Physical state	: Liquid.
Appearance	: Liquid.
Colour	: Yellow-brown
Odour	: Characteristic
Odour threshold	: No data available.
pH	: 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	: >290 °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	: 898 kg/m ³ @15°C
Solubility	: Slightly soluble, the product remains on the water surface.
Log Pow	: No data available.
Viscosity, kinematic	: 460 mm ² /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

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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) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

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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

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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

13.1 Waste treatment methods

Additional information : Dispose in a safe manner in accordance with local/national regulations

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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 : No supplementary information available

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

No Additional Information Available

14.6.4 Inland waterway transport

No Additional Information Available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

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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.