

TIGER PLUS 20W50 CI-4

Safety Data Sheet

According to Regulation (EC) No. 453/2010

Date of issue: 20/6/2016

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

1.1 Product identifier

Product Form : Mixture
Product Name : TIGER PLUS 20W50 CI-4
Product Code : 1306
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

1.3 Details of the supplier of the safety data sheet

Emergency number : +966 11 8017727

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Not classified

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2 Label elements

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

EUH phrases : EUH210 - Safety data sheet available on request

2.3 Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Mineral oil	CAS No) 8042-47-5	1 - 10	Not classified
Zinc dialkyl dithiophosphate	CAS No) 68649-42-3 (EC no) 272-028-3	0,5 - 1,5	Xi; R41 Xi; R38 N; R51/53
Organomolybdenum amide		0,1 - 0,75	N; R51/53
Mineral oil	(CAS No) 8042-47-5	1 - 10	Asp. Tox. 1, H304
Zinc dialkyl dithiophosphate	(CAS No) 68649-42-3 (EC no) 272-028-3	0,5 - 1,5	Eye Dam. 1, H318Skin Irrit. 2, H315 Aquatic Chronic 2, H411
Organomolybdenum amide		0,1 - 0,75	Aquatic Chronic 2, H411

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.

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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 normal 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 normal 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.
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6.1.2. For emergency responders

Protective equipment	:	Wear suitable protective clothing and gloves.
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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

SECTION 7: Handling and storage

7.1 Reference to other sections

Precautions for safe handling	:	Avoid all unnecessary exposure. Both local exhaust and 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

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).

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8.2 Exposure controls

Personal protective equipment : Safety glasses. Gloves.



Hand protection : Wear suitable gloves resistant to chemical penetration.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties.

Physical state	: Liquid.
Appearance	: Oily 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	: >200°C@ASTMD92
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	: 893 kg/m ³ @15°C
Solubility	: Slightly soluble, the product remains on the water surface.
Log Pow	: No data available.
Viscosity, kinematic	: 160 mm ² /s @ 40°C
Viscosity, dynamic	: 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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Organomolybdenum amide	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Zinc dialkyl dithiophosphate (68649-42-3)	
LD50 oral rat	2230 mg/kg
LD50 dermal rat	> 2000 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
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

SECTION 12: Ecological information

12.1 Toxicity

Organomolybdenum amide	
LC50 fishes 1	> 10 mg/l 96h
EC50 Daphnia 2	1,5 mg/l 48h
EC50 other aquatic organisms 2	1,5 mg/l 72h

12.2 Persistence and degradability

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Persistence and degradability	Not soluble in water, so only minimally 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 : Transport information

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1 UN number

No dangerous good in sense of transport regulations

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

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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.

SECTION 15: Regulatory information

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

15.1.1. Air transport

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.

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-phrases :

Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2	skin corrosion/irritation Category 2
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects
R38	Irritating to skin
R41	Risk of serious damage to eyes
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
Xi	Irritant

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.