

# TIGER ATF T - A

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment 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 ATF T - A  
Product Code : 1603  
Product Group : Blend

#### 1.2 Product identifier

##### 1.2.1. Relevant identified uses

Main use category : Professional Use  
Industrial/Professional use spec. : Non-dispersive use Used in closed systems  
Function or use category : Brake Fluids

##### 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

Hazardoustotheaquaticenvironment—ChronicHazard,Category3 H412  
Full text of H statements : see section 16

#### 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) : P273 - Avoid release to the environmentP501 - Dispose of contents/container in accordance with local/regional/national/international regulations  
Child-resistant fastening : No  
Tactile warning : No

#### 2.3 Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

# TIGER ATF T - A

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### 3.2 Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Baseoil - unspecified	(CAS No) 64742-55-8 (EC no) 265-158-7. (EC index no) 649-468-00-3	55 - 75	Asp. Tox. 1, H304
4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate	(EC no) 299-434-3	0,1 - 0,99	Eye Irrit. 2, H319 Skin Sens. 1, H317. Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
3-(decyloxy)tetrahydrothiophene 1,1-dioxide	(EC no) 242-556-9	0,1 - 0,49	Aquatic Chronic 2, H411
Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts	(EC no) 270-608-0. (EC index no) 01-2119493628-22	0,1 - 0,49	Eye Dam. 1, H318 Skin Irrit. 2, H315 Aquatic Chronic 2, H411.
Thiophene, tetrahydro-, 1, 1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich	(CAS No) 398141-87-2. (EC no) 800-172-4. (REACH-no) 01-2119969520-35	0,1 - 0,249	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.

### 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.

# TIGER ATF T - A

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### 6.4 Reference to other sections

No additional information available

## 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

- Additional information : 5 mg/m<sup>3</sup> 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. Nitrile rubber (NBR) /
- 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 adequate ventilation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties.

- Physical state : Liquid.
- Appearance : Only Liquid.
- Colour : Red
- 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 : > 202 °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 : 858 kg/m<sup>3</sup> @15°C
- Solubility : Slightly soluble, the product remains on the water surface.
- Log Pow : No data available.

# TIGER ATF T - A

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Viscosity, kinematic	: 37 mm <sup>2</sup> /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

Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts	
LD50 oral rat	3600 mg/kg
LD50 dermal rabbit	20000mg/kg
Baseoil - unspecified (64742-55-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 3000 mg/kg
4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate	
LD50 oral rat	> 10000 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

## TIGER ATF T - A

Viscosity, kinematic	37 mm <sup>2</sup> /s @ 40°C
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# TIGER ATF T - A

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### SECTION 12: Ecological information

#### 12.1 Toxicity

Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts	
LC50 fish 1	4,5 ml/l OECD 203, (Cyprinodon variegatus, 96h)
EC50 Daphnia 1	23 mg/l OECD 202, (Daphnia magna, 72h)
EC50 other aquatic organisms 1	21 ml/l
Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts	
LC50 fish 1	1000 mg/l OECD 203
LC50 fish 2	> 0,17 mg/l
EC50 Daphnia 1	0,062 mg/l OECD 202
EC50 other aquatic organisms 1	> 100 mg/l OECD 201

#### 12.2 Persistence and degradability

TIGER ATF T - A	
Persistence and degradability	Not soluble in water, so only minimally biodegradable.
3-(decyloxy)tetrahydrothiophene 1,1-dioxide	
Persistence and degradability	Not readily biodegradable.
Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts	
Biodegradation	1,5 % OECD 301B
4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate	
Persistence and degradability	Not readily biodegradable
Biodegradation	11 - 14 % OECD 301
Thiophene, tetrahydro-, 1, 1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)	
Persistence and degradability	Not readily biodegradable

#### 12.3 Bioaccumulative potential

Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts	
Log Pow	0,69
4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate	
Bioconcentration factor (BCF REACH)	410 140 - 410 @OECD 305
Bioaccumulative potential	No bioaccumulation.
Thiophene, tetrahydro-, 1, 1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)	
Bioaccumulative potential	Potential to bioaccumulate.

# TIGER ATF T - A

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### 12.4 Mobility in soil

#### 4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate

Ecology - soil	Adsorbs into the soil.
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#### Thiophene, tetrahydro-, 1, 1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)

Ecology - soil	Adsorbs into the soil.
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### 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

Proper Shipping Name (ADR)	: Not applicable.
Proper Shipping Name (IMDG)	: Not applicable.
Proper Shipping Name (IATA)	: Not applicable.
Proper Shipping Name (ADN)	: Not applicable.
Proper Shipping Name (RID)	: Not applicable.

### 14.3 Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable.

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable.

#### IATA

Transport hazard class(es) (IATA) : Not applicable.

#### ADN

Transport hazard class(es) (ADN) : Not applicable.

#### RID

### 14.4 Packing group

Not applicable

### 14.5 Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
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.

# TIGER ATF T - A

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### SECTION 15: Regulatory information

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

##### 15.1.1 EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

##### 15.1.2 National regulations

###### Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS,  
12th Ordinance Implementing the Federal : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

###### Netherlands

SZW-lijst van kankerverwekkende stoffen : Baseoil - unspecified is listed  
SZW-lijst van mutagene stoffen : Baseoil - unspecified is listed  
NIET-limitatieve lijst van voor de voortplanting : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

###### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed  
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the productPregnant/

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

### SECTION 16: Other information.

Indication of changes:

1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Label elements	Modified	
3.2	Composition/information on ingredients	Modified	

Abbreviations and acronyms:

	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
	LC50: median Lethal Concentration for 50% of subjects
	EC50: concentration producing 50% effect

# TIGER ATF T - A

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### 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:

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
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye Damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
EUH208	Contains . May produce an allergic reaction

### 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.*