

TIGER PLUS HYDRO HV 46

Safety Data Sheet

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

Date of issue: 26/01/2017 Revision date: 26/01/2017 Supersedes: 26/01/2017 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 PLUS HYDRO HV 46
Product Code : 1708
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
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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

Not classified

2.2 Label elements

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

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

3.2 Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinkalkyldithiophosphate	(CAS No) 68649-42-3 (EC no) 272-028-3 (REACH-no) 01-2119493635-27	0,1 - 0,99	Eye Dam. 1, H318 Aquatic Chronic 2, H411

Full text of H-statements: 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 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 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

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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. 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 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.

Meltin : 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 : 876 kg/m³ @15°C

Solubility : Slightly soluble, the product remains on the water surface.

Log Pow : No data available.

Viscosity, kinematic : 46 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
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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Viscosity, kinematic	46 mm2/s @ 40°C

SECTION 12: Ecological information

12.1

Toxicity

No additional information available

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 : 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		
Transport hazard class(es) (RID)	:	Not applicable

14.4 Packing group

Packing group (ADR)	:	Not applicable
Packing group (IMGD)	:	Not applicable
Packing group (IATA)	:	Not applicable
Packing group (ADN)	:	Not applicable
Packing group (RID)	:	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 data available

14.6.2 Transport by sea

No data available

14.6.3 Air transport

No data available

14.6.4 Inland waterway transport

No data available

14.6.5 Rail transport

No data 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 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) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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Netherlands

SZW-lijst van kankerverwekkende stoffen	: Zinkalkyldithiophosphate is listed
SZW-lijst van mutagene stoffen	: Zinkalkyldithiophosphate is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

Denmark

Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information.

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

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.
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Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects

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.