



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

version: 1.0
replaces version: -

revised on: 01.06.2026
print date: 12.06.2026

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

1.1 Product identifier

TRIBUNOL TAURON X6 5W-20

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Lubricants, greases, release products

1.3 Details of the supplier of the safety data sheet

Tributech GmbH
Windhauser Weg 2
41366 Schwalmtal

Telephone: +49 (0)2163 889 3444
Fax: +49 (0)2163 889 3456
E-Mail: info@tributech.de

1.4 Emergency telephone number

Poison Control Centre (Bonn): +49 (0) 228 19240 (available 24 hours a day)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP), but is subject to labelling requirements.

2.2 Label elements

Classification according to Regulation (EC) No 1272/2008

Supplemental label information:

EUH210 Safety data sheet available on request.

2.3 Other hazards

No information available.



SECTION 3: Composition/information on ingredients

3.2 Mixtures

Dangerous components:

CAS No	Chemical name	Quantity
	EC No Index No REACH No	
	Classification (Regulation (EC) No 1272/2008)	
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified	20 - < 25 %
	276-738-4 649-483-00-5 01-2119474889-13	
	Asp. Tox. 1; H304	
2215-35-2	zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	1 - < 5 %
	218-679-9	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411	

For the wording of the listed hazard phrases refer to section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
2215-35-2		zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl)	1 - < 5 %
		inhalation: LC50 = >2 mg/l (dusts or mists); dermal: LD50 = >25000 mg/kg; oral: LD50 = 2230 mg/kg Eye Dam. 1; H318: >= 10 - 100 Eye Irrit. 2; H319: >= 10 - < 10	

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation:

Provide fresh air

After contact with skin:

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes:

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion:

Rinse mouth immediately and drink 1 glass of water.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings. Foam



5.2 Special hazards arising from the substance or mixture

Non-flammable.

5.3 Advice for firefighters

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Protective equipment:

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General advice: Use personal protection equipment.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up: Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information: Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

No special measures are necessary.

Advice on protection against fire and explosion:

No special fire protection measures are necessary.

Advice on general occupational hygiene:

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.



7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed.

Hints on joint storage:

No special measures are necessary.

Storage class according to TRGS 510:

10 (Flammable liquids that cannot be assigned to any of the above LGK categories)

7.3 Specific end uses

Lubricants, greases, release products

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL/DMEL values:

CAS No	Name of agent	Exposure route	Effect	Value
2215-35-2	zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)			
	Worker , long-term	inhalation	systemic	8.6 mg/m ³
	Worker , long-term	dermal	systemic	12.2 mg/kg bw/day
	Consumer , long-term	inhalation	systemic	2.13 mg/m ³
	Consumer , long-term	dermal	systemic	6.1 mg/kg bw/day
	Consumer , long-term	oral	systemic	0.24 mg/kg bw/day

PNEC values:

CAS No	Name of agent	Value
2215-35-2	zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	
	Environmental compartment	
	Freshwater	0.004 mg/l
	Marine water	0.0046 mg/l
	Marine water (intermittent releases)	0.045 mg/l
	Freshwater sediment	0.074 mg/kg
	Marine sediment	0.007 mg/kg
	Secondary poisoning	10.67 mg/kg
	Micro-organisms in sewage treatment plants (STP)	100 mg/l
	Soil	0.01 mg/kg

8.2 Exposure controls

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Skin/hand protection:

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye/face protection:

Wear eye protection/face protection.



Body protection:

Use of protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	amber
Odour:	characteristic
pH-Value:	not determined
Melting/freezing point:	not determined
Pourpoint:	< -35 °C (ISO 3016)
Boiling point and boiling range:	not determined
Flash point:	205 °C (ASTM D 93)
Ignition temperature:	not determined
Decomposition temperature:	not determined
Evaporation rate:	not determined
Flammability:	not determined
Upper explosion limits:	not determined
Lower explosion limits:	not determined
Vapour pressure:	not determined
Relative vapour density:	not determined
Density (at 15 °C):	0.851 g/cm ³ (DIN 51757)
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
Solubility in other solvents:	not determined
Partition coefficient n-octanol/water:	not determined
Viscosity (at 40 °C):	46 mm ² /s (DIN 51562)
Explosive properties:	The product is not: Explosive. not explosive according to EU A.14
Oxidizing properties:	The product is not: oxidising.

9.2 Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.



10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

none

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:

Based on available data, the classification criteria are not met.

ATEmix calculated:

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l;

ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2215-35-2	zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)				
	oral	LD50 2230 mg/kg	Rat	Manufacturer	
	dermal	LD50 > 25000 mg/kg	Rat	Manufacturer	
	inhalation (1 h) dust/mist	LC50 > 2 mg/l	Rat	Manufacturer	

Irritation and corrosivity:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.



11.2 Information on other hazards

Endocrine disrupting properties:

No information available.

Other information:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1 Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
2215-35-2	zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)					
	Acute fish toxicity	LL50 4.5 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer	
	Acute algae toxicity	ErC50 21 mg/l	72 h	Desmodesmus subspicatus	Manufacturer	
	Acute crustacea toxicity	EL50 23 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer	

12.2 Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
2215-35-2	zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)			
	OECD 301B	1.5	28	
	Not readily biodegradable (according to OECD criteria)			

12.3 Bioaccumulative potential

The product has not been tested.

CAS No	Chemical name	Log Pow
2215-35-2	zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	2.21

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.



12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

List of Wastes Code:

residues/unused products:

13 02 05 – OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

used product:

13 02 05 – OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

Contaminated packaging:

15 02 02 – WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; absorbents, filter materials, wiping cloths and protective clothing; absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances; hazardous waste

Recommendation:

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID):

14.1 UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2 UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3 Transport hazard classes:

No dangerous good in sense of this transport regulation.

14.4 Packing group:

No dangerous good in sense of this transport regulation.

14.5 Environmental hazards:

No

14.6 Special precautions for user:

No dangerous good in sense of this transport regulation.



Inland waterways transport (ADN):

14.1 UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2 UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3 Transport hazard classes:

No dangerous good in sense of this transport regulation.

14.4 Packing group:

No dangerous good in sense of this transport regulation.

14.5 Environmental hazards:

No

14.6 Special precautions for user:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG):

14.1 UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2 UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3 Transport hazard classes:

No dangerous good in sense of this transport regulation.

14.4 Packing group:

No dangerous good in sense of this transport regulation.

14.5 Environmental hazards:

No

14.6 Special precautions for user:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR):

14.1 UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2 UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3 Transport hazard classes:

No dangerous good in sense of this transport regulation.

14.4 Packing group:

No dangerous good in sense of this transport regulation.

14.5 Environmental hazards:

No

14.6 Special precautions for user:

No dangerous good in sense of this transport regulation.

14.7 Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information:

Restrictions on use (REACH, annex XVII): Entry 75

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information:

Water hazard class (D): 1 - slightly hazardous to water



15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Relevant H and EUH statements (number and full text):

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.
EUH210 – Safety data sheet available on request.

Abbreviations and acronyms:

Asp. Tox: Aspiration hazard
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
RID: Regulations concerning the international carriage of dangerous goods by rail
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>
EC/EEC: European Community/European Economic Community
EU: European Union
M-factor: Multiplying factor
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

**Disclaimer:**

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