



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

version: 1.0

replaces version: -

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

1.1 Product identifier

TRIBUNOL XPL 20W-50

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

Use of the substance/mixture:

Motor oil

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:

EUH208 Contains Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (int. CAS 722503-70-0). May produce an allergic reaction.

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)			
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts			1 - < 2.5 %
	272-238-5		01-2119657973-23	
	Eye Dam. 1, Aquatic Chronic 2; H318 H411			
	Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated			1 - < 2 %
	953-650-0			
	Repr. 2, Skin Sens. 1; H361d H317			
722503-68-6	Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (int. CAS 722503-70-0)			0.3 - < 1 %
	682-816-2			
	Skin Sens. 1B; H317			

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		
68784-31-6	272-238-5	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	1 - < 2.5 %
	dermal: LD50 = > 5000 mg/kg; oral: LD50 = 3400 mg/kg Eye Dam. 1; H318: >= 10 - 100 Eye Irrit. 2; H319: >= 10 - < 10		
	953-650-0	Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated	1 - < 2 %
	Repr. 2; H361d: >= 17.15 - 100		
722503-68-6	682-816-2	Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (int. CAS 722503-70-0)	0.3 - < 1 %
	Skin Sens. 1B; H317: >= 2 - 100		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

When in doubt or if symptoms are observed, get medical advice.

After inhalation:

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

After contact with skin:

Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

After contact with eyes:

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion:

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.



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:

Water spray jet. Foam. Carbon dioxide (CO₂). Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media:

High power water jet.

5.2 Special hazards arising from the substance or mixture

Combustible. Non-flammable. In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂), Pyrolysis products, toxic.

5.3 Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers. 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. Full protection suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General advice: Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

For non-emergency personnel: Provide adequate ventilation. Use personal protection equipment. Remove persons to safety.

For emergency responders: Wear personal protection equipment (refer to section 8).

6.2 Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

6.3 Methods and material for containment and cleaning up

For containment: Prevent spread over a wide area (e.g. by containment or oil barriers). Cover drains. Stop leak if safe to do so.



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: Clean contaminated articles and floor according to the environmental legislation.

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13 In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with eyes and skin. Use personal protection equipment.

Advice on protection against fire and explosion:

Usual measures for fire prevention.

Advice on general occupational hygiene:

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection program. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Keep away from heat. Maximum storage temperature: 80 °C

Requirements for storage rooms and vessels:

Keep container tightly closed in a cool, well-ventilated place. Store in a dry place.

Hints on joint storage:

Do not store together with: Oxidizing agent, Reducing agent, Strong acid, Strong alkali.

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

Motor oil



SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
-	Mineral Oil pure, highly & severely refined (Inhalable)	-	5		TWA (8 h)	

DNEL/DMEL values:

CAS No	Substance	Exposure route	Effect	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L)			
		inhalation	systemic	2.73 mg/m ³
		inhalation	local	5.58 mg/m ³
		dermal	systemic	0.970 mg/kg bw/day
		inhalation	local	1.19 mg/m ³
		oral	systemic	0.74 mg/kg bw/day
68784-31-6	68784-31-6 Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts			
		inhalation	systemic	2.73 mg/m ³
		inhalation	systemic	496.4 mg/m ³
		dermal	systemic	10.42 mg/kg bw/day
		dermal	systemic	100 mg/kg bw/day
		inhalation	systemic	11.75 mg/m ³
		inhalation	systemic	198.6 mg/m ³
		dermal	systemic	2.1 mg/kg bw/day
		dermal	systemic	50 mg/kg bw/day
		oral	systemic	0.21 mg/kg bw/day
		oral	systemic	29 mg/kg bw/day

CAS No	Substance	Value
	Environmental compartment	
64741-88-4	Distillates (petroleum), solvent-refined heavy paraffinic; Baseoil - unspecified (Note L)	
	Secondary poisoning	9.33 mg/kg
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	
	Freshwater	0.004 mg/l
	Freshwater (intermittent releases)	0.044 mg/l
	Marine water	0.0046 mg/l
	Freshwater sediment	0.07 mg/kg
	Marine sediment	0.007 mg/kg
	Secondary poisoning	8.33 mg/kg
	Micro-organisms in sewage treatment plants (STP)	3.8 mg/l
	Soil	0.055 mg/kg

8.2 Exposure controls



Protective gloves



Tightly sealed goggles

Appropriate engineering controls:

Provide adequate ventilation as well as local exhaust at critical locations.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Skin/hand protection:

Tested protective gloves must be worn (EN ISO 374). 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. (EN 166)

Body protection:

Wear suitable protective clothing.

Thermal hazards:

No information available.

Environmental exposure controls:

Avoid release to the environment.

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 applicable
Melting/freezing point:	not determined
Pourpoint:	-36 °C (DIN ISO 3016)
Boiling point and boiling range:	not determined
Flash point:	>225 °C (ASTM D 92)
Ignition temperature:	not determined
Decomposition temperature:	not determined
Flammability:	not readily combustible
Upper explosion limits:	not determined
Lower explosion limits:	not determined
Vapour pressure:	< 0.1 hPa calculated.
Relative vapour density:	not determined
Density (at 15 °C):	0.881 g/cm ³ (ASTM D 7042)
Water solubility:	practically insoluble
Solubility in other solvents:	not determined



Partition coefficient n-octanol/water:	not determined
Viscosity (at 40 °C):	167.1 mm ² /s (ASTM D 7042)
Explosive properties:	The product is not: Explosive.
Oxidizing properties:	The product is not: oxidising.
Particle characteristics:	not applicable

9.2 Other information

No information available.

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

Heat

10.5 Incompatible materials

Oxidizing agent, Reducing agent, Strong acid, Strong alkali.

10.6 Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂), Pyrolysis products, toxic.

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
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts				
	oral	LD50 3400 mg/kg	Rat	Study report (1981)	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402

**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. Classification procedure H318/H319 By analogy.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met. Contains Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (int. CAS 722503-70-0). May produce an allergic reaction.

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:

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

Other information:

No information available.

SECTION 12: Ecological information

12.1 Toxicity

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

CAS No	Chemical name		Dose	[h] [d]	Species	Source	Method
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts						
	Acute fish toxicity	LL50	4.4 mg/l	96 h	Oncorhynchus mykiss	Study report (2002)	OECD Guideline 203
	Acute algae toxicity	ErC50	410 mg/l	72 h	Desmodesmus subspicatus	Study report (2004)	OECD Guideline 201
	Acute crustacea toxicity	EL50	75 mg/l	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202
	Crustacea toxicity	NOEC	0.4 mg/l	21 d	Daphnia magna	Study report (2010)	OECD Guideline 211

12.2 Persistence and degradability

The product has not been tested.



12.3 Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water:

CAS No	Chemical name	Log Pow
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	approx. 4

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

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

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:

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Dispose of this material and its container to hazardous or special waste collection point.



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:

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

Additional information:

Observe in addition any national regulations!

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):

H317 – May cause an allergic skin reaction.

H318 – Causes serious eye damage.

H361d – Suspected of damaging the unborn child.

H411 – Toxic to aquatic life with long lasting effects.

EUH208 – Contains Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (int. CAS 722503-70-0). May produce an allergic reaction.

EUH210 – Safety data sheet available on request.

Abbreviations and acronyms:

Eye Dam. 1: Serious eye damage, hazard category 1

Skin Sens. 1B: Skin sensitisation, hazard category 1B

Repr. 2: Reproductive toxicity, hazard category 2

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2

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

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

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: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

EC/EEC: European Community/European Economic Community

EU: European Union

M-factor: Multiplying factor

IATA: International Air Transport Association

DGR: Dangerous Goods Regulations

ICAO: International Civil Aviation Organization

TI: Technical Instructions

Disclaimer:

The above information in the safety data sheet corresponds to the best of our knowledge and experience and serves only to describe the product in terms of safety during handling, transport, and disposal. The information does not in any way constitute a (technical) description of the nature of the goods (product specification). The suitability of the product for a specific application cannot be inferred from the information provided in the safety data sheet. Changes to this document are not permitted. The information is not transferable to other products. If the product is mixed, blended, or processed with other materials, or subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced. It is the responsibility of the recipient of our product to comply with applicable federal, state, and local laws in their activities. Please contact us if you require current safety data sheets.

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