



## SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

version: 1.0

replaces version: -

revised on: 01.06.2026

print date: 10.06.2026

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

#### 1.1 Product identifier

TRIBUNOL TAURON HD 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.

#### 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)	
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - unspecified (Note L)	30 - < 60 %
	265-157-1   649-467-00-8   01-2119484627-25	
64742-62-7	Residual oils (petroleum), solvent-dewaxed; base oil - unspecified (Note L)	5 - < 15 %
	265-166-0   649-471-00-X   01-2119480472-38	
	Highly refined mineral oil (C15-C50) (CAS 64742-54-7, 64742-55-8, 64742-65-0) (< 3% 5 - < 15% DMSO extract, IP 346 compliant)	5 - < 15 %
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 - < 2.5 %
	953-650-0	
	Repr. 2, Skin Sens. 1; H361d H317	
722503-68-6	Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	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	
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - unspecified (Note L)	30 - < 60 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
64742-62-7	265-166-0	Residual oils (petroleum), solvent-dewaxed; base oil - unspecified (Note L)	5 - < 15 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
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		1 - < 2.5 %
		Repr. 2; H361d: >= 17,15 - 100	

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

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

**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 (CO<sub>2</sub>). Co-ordinate fire-fighting measures to the fire surroundings.

#### **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 (CO<sub>2</sub>), Pyrolysis products, toxic.

#### **5.3 Advice for firefighters**

Suppress gases/vapours/mists with water spray jet. 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: Stop leak if safe to do so. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

# 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. Maximum process temperature: 100 °C

### **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 programme. 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 in a cool, well-ventilated place. Store in a dry place. Keep away from heat. Maximum storage temperature: 80 °C

### **Hints on joint storage:**

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

## 7.3 Specific end uses

Motor oil



**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Occupational Exposure Limits (TRGS 900):

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
-	Hydrocarbon mixtures, Fractions (RCP group): C9–C14 Aliphatic compounds		300		2(II)	TRGS 900
-	Hydrocarbon mixtures, Fractions (RCP group): C9–C14 Aromatics		50		2(II)	TRGS 900

DNEL/DMEL values:

CAS No	Substance			
DNEL type				
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L)			
Worker DNEL, long-term	inhalation	systemic	2,73 mg/m <sup>3</sup>	
64742-62-7	Residual oils (petroleum), solvent-dewaxed; Baseoil - unspecified (Note L)			
Worker DNEL, long-term	inhalation	systemic	2,73 mg/m <sup>3</sup>	
Worker DNEL, long-term	inhalation	local	5,58 mg/m <sup>3</sup>	
Worker DNEL, long-term	dermal	systemic	0,97 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	local	1,19 mg/m <sup>3</sup>	
Consumer DNEL, long-term	oral	systemic	0,74 mg/kg bw/day	
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts			
Worker DNEL, long-term	inhalation	systemic	2,93 mg/m <sup>3</sup>	
Worker DNEL, acute	inhalation	systemic	496,4 mg/m <sup>3</sup>	
Worker DNEL, long-term	dermal	systemic	10,42 mg/kg bw/day	
Worker DNEL, acute	dermal	systemic	100 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	11,75 mg/m <sup>3</sup>	
Consumer DNEL, acute	inhalation	systemic	198,6 mg/m <sup>3</sup>	
Consumer DNEL, long-term	dermal	systemic	2,1 mg/kg bw/day	
Consumer DNEL, acute	dermal	systemic	50 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	0,21 mg/kg bw/day	
Consumer DNEL, acute	oral	systemic	29 mg/kg bw/day	

PNEC values:

CAS No	Substance	
Environmental compartment		
64742-54-7	Distillates (petroleum), hydrotreated 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

### 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

<b>Physical state:</b>	Liquid
<b>Colour:</b>	brown
<b>Odour:</b>	characteristic
<b>pH-Value:</b>	not applicable
<b>Melting/freezing point:</b>	not determined
<b>Pourpoint:</b>	~ -19 °C (DIN ISO 3016)
<b>Boiling point and boiling range:</b>	not determined
<b>Flash point:</b>	238 °C (DIN ISO 2592)
<b>Ignition temperature:</b>	not determined
<b>Decomposition temperature:</b>	not determined
<b>Flammability:</b>	Not readily combustible.
<b>Upper explosion limits:</b>	not determined
<b>Lower explosion limits:</b>	not determined
<b>Vapour pressure:</b>	< 0.1 hPa calculated.
<b>Relative vapour density:</b>	not determined
<b>Density (at 15 °C):</b>	~ 0.898 g/cm <sup>3</sup> (DIN 51757)
<b>Water solubility:</b>	practically insoluble
<b>Solubility in other solvents:</b>	not determined
<b>Partition coefficient n-octanol/water:</b>	not determined



<b>Viscosity (at 40 °C):</b>	~ 185.4 mm <sup>2</sup> /s (DIN 51562)
<b>Viscosity (at 100 °C):</b>	~ 18.6 mm <sup>2</sup> /s (DIN 51562)
<b>Particle characteristics:</b>	not relevant

## 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 (CO<sub>2</sub>), 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
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - unspecified (Note L)				
	oral	LD50 > 5000 mg/kg		REACH Dossier	OECD 401
	dermal	LD50 > 5000 mg/kg		REACH Dossier	OECD 402
64742-62-7	Residual oils (petroleum), solvent-dewaxed; base oil - unspecified (Note L)				
	oral	LD50 > 5000 mg/kg		ECHA	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg		ECHA	OECD Guideline 402
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts				
	oral	LD50 3400 mg/kg		ECHA	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg		ECHA	OECD Guideline 402

**Irritation and corrosivity:**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.  
 Serious eye damage/eye irritation: Based on available data, the classification criteria are not met. Classification procedure H318/H319: By analogy. Test data suggests that the zinc component contained does not lead to a single stage of the product .

**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 special hazards known when the product is properly used and the precautionary measures indicated are observed.



**SECTION 12: Ecological information**

**12.1 Toxicity**

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - unspecified (Note L)					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Pimephales promelas	REACH Dossier	OECD 203
	Acute crustacea toxicity	EL50 > 10000 mg/l	48 h	Daphnia magna	REACH Dossier	OECD 202
	Fish toxicity	NOEC >= 1000 mg/l	14 d	Oncorhynchus mykiss	REACH Dossier	
	Algae toxicity	NOEC > 100 mg/l	3 d	Pseudokirchneriella subcapitata	REACH Dossier	OECD 201
64742-62-7	Residual oils (petroleum), solvent-dewaxed; base oil - unspecified (Note L)					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Pimephales promelas	ECHA	OECD Guideline 203
	Fish toxicity	NOEC >= 1000 mg/l	14 d	Oncorhynchus mykiss	CONCAWE, Brussels (2010)	
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	ECHA	OECD Guideline 203
	Acute algae toxicity	ErC50 410 mg/l	72 h	Desmodesmus subspicatus	ECHA	OECD Guideline 201
	Acute crustacea toxicity	EL50 75 mg/l	48 h	Daphnia magna	ECHA	OECD Guideline 202
	Crustacea toxicity	NOEC 0,4 mg/l	21 d	Daphnia magna	ECHA	OECD Guideline 211

**12.2 Persistence and degradability**

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - unspecified (Note L)			
	OECD 301F	31%	28	REACH Dossier
	Not readily biodegradable (according to OECD criteria).			

**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	ca. 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**

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:**

Wash with plenty of water. Completely emptied packages can be recycled.

#### **Recommendation:**

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.

## **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)

#### **Additional information:**

According to EC directives or the corresponding national regulations the product does not have to be labelled.



## 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): 1 - slightly hazardous for water.

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

## 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).

## **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.

This data sheet is a safety data sheet in accordance with §5 GefStoffV. It was created electronically and does not bear a signature.