

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Boost Oil Gear Oil TDL 80W-90

Revision date: 22.06.2020

Product code: MIT0033

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

### 1.1. Product identifier

Boost Oil Gear Oil TDL 80W-90

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

#### Use of the substance/mixture

Lubricating agent

#### Uses advised against

No information available.

### 1.3. Details of the supplier of the safety data sheet

Company name: Boost Oil Lubricants  
Street: Auf dem Texas 11  
Place: D-28857 Syke  
Telephone: 0049/4242160391

Telefax: 0049/4242160392

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4

Respiratory or skin sensitisation: Skin Sens. 1A

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful if inhaled.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

Reaction products of bis (2-methylpentan-2-yl) dithiophosphoric acid with phosphore, propylene oxide and amine, C 12-14 -alkyl (branched)

Amine, C10-14-tert-Alkyl

Signal word: Warning

Pictograms:



#### Hazard statements

H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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 P304+P340  
P312

 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor if you feel unwell.

**Labelling of packages where the contents do not exceed 125 ml**
**Signal word:**

Warning

**Pictograms:**

**Hazard statements**

H317-H412

**Precautionary statements**

P261-P272-P280-P302+P352-P321-P333+P313-P362+P364-P501

**2.3. Other hazards**

No information available.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**
**Chemical characterization**

Preparation of base oils and additives.

**Hazardous components**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
1213789-63-9	C16-18- (geradzahlige, gesättigte und ungesättigte)	0 - < 0,1 %
	627-034-4	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H335 H373 H304 H400 H410	
	Reaction products of bis (2-methylpentan-2-yl) dithiophosphoric acid with phosphore, propylene oxide and amine, C 12-14 -alkyl (branched)	0 - <= 0,5 %
	931-384-6	
	01-2119493620-38	
	Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H302 H318 H317 H411	
	Amine, C10-14-tert-Alkyl	0 - <= 0,1 %
	701-175-2	
	Acute Tox. 1, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H302 H314 H318 H317 H400 H410	

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

**4.1. Description of first aid measures**
**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

 Provide fresh air.  
Get medical advice/attention if you feel unwell.

**After contact with skin**

 Take off immediately all contaminated clothing and wash it before reuse.  
After contact with skin, wash immediately with plenty of water and soap.



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**After contact with eyes**

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

**After ingestion**

Rinse mouth immediately and drink plenty 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**

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

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Non-flammable. In case of fire may be liberated:  
Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>)

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Suppress gases/vapours/mists with water spray jet.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. 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**

Absorb with liquid-binding material (e.g. 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**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**7.2. Conditions for safe storage, including any incompatibilities**

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#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

#### 7.3. Specific end use(s)

Lubricating agent

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
	Reaction products of bis (2-methylpentan-2-yl) dithiophosphoric acid with phosphore, propylene oxide and amine, C 12-14 -alkyl (branched)		
Worker DNEL, long-term	inhalation	systemic	8,56 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	12,5 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	2,2 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	6,25 mg/kg bw/day
Consumer DNEL, acute	dermal	local	0,024 mg/cm <sup>2</sup>
Consumer DNEL, long-term	oral	systemic	0,25 mg/kg bw/day

##### PNEC values

CAS No	Substance	
Environmental compartment	Value	
	Reaction products of bis (2-methylpentan-2-yl) dithiophosphoric acid with phosphore, propylene oxide and amine, C 12-14 -alkyl (branched)	
Freshwater	0,001 mg/l	
Freshwater (intermittent releases)	0,085 mg/l	
Marine water	0,0001 mg/l	
Freshwater sediment	14,4 mg/kg	
Marine sediment	1,44 mg/kg	
Micro-organisms in sewage treatment plants (STP)	24,33 mg/l	
Soil	10 mg/kg	

#### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls



#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.



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### Eye/face protection

Wear eye protection/face protection.

### 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.

### Skin protection

Wear suitable protective clothing.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	yellow
Odour:	not determined
pH-Value:	not determined

#### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Pour point:	-30 °C
Flash point:	204 °C

#### Flammability

Solid:	not applicable
Gas:	not applicable

#### Explosive properties

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Lower explosion limits:	not determined
Upper explosion limits:	not determined

#### Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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#### Oxidizing properties

Not oxidising.

Vapour pressure:	not determined
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Density (at 15,6 °C):	0,89 g/cm <sup>3</sup>
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Water solubility:	not determined
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#### Solubility in other solvents

not determined

Partition coefficient:	not determined
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Viscosity / kinematic: (at 40 °C)	167,5 mm <sup>2</sup> /s
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Vapour density:	not determined
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Evaporation rate: not determined

Solvent content: 0,0%

**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 mixture is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

Materials to avoid

Acids

Reducing agent.

Oxidizing agent

**10.6. Hazardous decomposition products**

Carbon monoxide

Carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Harmful if inhaled.

**ATEmix calculated**

ATE (inhalation aerosol) 5,000 mg/l



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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1213789-63-9	C16-18- (geradzahlige, gesättigte und ungesättigte)				
	oral	ATE 500 mg/kg			
	Reaction products of bis (2-methylpentan-2-yl) dithiophosphoric acid with phosphore, propylene oxide and amine, C 12-14 -alkyl (branched)				
	oral	LD50 2000 mg/kg	Rat	OECD 401	
	Amine, C10-14-tert-Alkyl				
	oral	ATE 500 mg/kg			
	dermal	ATE 300 mg/kg			
	inhalation vapour	ATE 0,05 mg/l			
	inhalation aerosol	ATE 0,005 mg/l			

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**Sensitising effects**

May cause an allergic skin reaction. (Reaction products of bis (2-methylpentan-2-yl) dithiophosphoric acid with phosphore, propylene oxide and amine, C 12-14 -alkyl (branched); Amine, C10-14-tert-Alkyl)

**Carcinogenic/mutagenic/toxic effects for reproduction**

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.

**Additional information on tests**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**Further information**

The product contains less than 3% DMSO extract (method IP346). A classification as a carcinogen with R45 is deleted. (Note L)

**SECTION 12: Ecological information****12.1. Toxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
	Reaction products of bis (2-methylpentan-2-yl) dithiophosphoric acid with phosphore, propylene oxide and amine, C 12-14 -alkyl (branched)					
	Acute fish toxicity	LC50 8,5 mg/l	96 h	Pimephales promelas (fathead minnow)	ECHA Dossier	
	Acute algae toxicity	ErC50 6,4 mg/l	96 h	Pseudokirchneriella subcapitata	ECHA Dossier	



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#### 12.2. Persistence and degradability

Not readily biodegradable (according to OECD criteria)

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	Reaction products of bis (2-methylpentan-2-yl) dithiophosphoric acid with phosphore, propylene oxide and amine, C 12-14 -alkyl (branched)			
	ASTM D-5864-95	3,6%	28	
	ECHA Dossier			

#### 12.3. Bioaccumulative potential

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

#### 12.6. Other adverse effects

No information available.

#### Further information

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

##### Advice on disposal

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.

##### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

##### 14.1. UN 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 class(es):

No dangerous good in sense of this transport regulation.

##### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

##### 14.1. UN 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 class(es):

No dangerous good in sense of this transport regulation.

##### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

##### 14.1. UN 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 class(es):

No dangerous good in sense of this transport regulation.

##### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

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



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- 14.1. UN 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 class(es):** 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**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

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**

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

**Additional information**

To follow: 850/2004/EC, 1107/2009/EC, 649/2012/EC

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
 Water contaminating class (D): 2 - clearly water contaminating  
 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****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,13,15.

**Abbreviations and acronyms**

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%

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Acute Tox. 4; H332	Calculation method
Skin Sens. 1A; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

H302 Harmful if swallowed.

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H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*