

according to Regulation (EC) No 1907/2006

# 610 HT(E) Synthetic Lubricating Fluid (Bulk)

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

#### 1.1. Product identifier

610 HT(E) Synthetic Lubricating Fluid (Bulk)

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

#### Use of the substance/mixture

Synthetic Base Lubricant. For the lubrication of equipment operating at temperatures to 250°C (482°F). Use over 225°C requires adequate ventilation and absence of open ignition sources.

#### Uses advised against

No information available.

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

Company name: Chesterton International GmbH

Street: Am Lenzenfleck 23

Place: D-85737 Ismaning GERMANY

Telephone: +49 89 99 65 46 - 0 Telefax: +49 89 99 65 46 - 50

e-mail: eu-sds@chesterton.com
e-mail (Contact person): eu-sds@chesterton.com
Internet: www.chesterton.com
Responsible Department: eu-sds@chesterton.com

**1.4. Emergency telephone** +49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

number:

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

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

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

### 2.2. Label elements

### Regulation (EC) No 1272/2008

# Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

#### 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures



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# **Hazardous components**

CAS No	Chemical name					
	EC No	Index No	REACH No			
	Classification (Regulation (EC) No	1272/2008)				
64742-54-7	Distillates (petroleum), hydrotreate	ed heavy paraffinic; Baseoil - unspeci	fied	5 - < 10 %		
	265-157-1	649-467-00-8	01-2119484627-25			
	Asp. Tox. 1; H304					
64742-56-9	Distillates (petroleum), solvent-de	waxed light paraffinic; Baseoil - unspe	ecified	5 - < 10 %		
	265-159-2	649-469-00-9	01-2119480132-48			
	Asp. Tox. 1; H304					
64742-65-0	Distillates (petroleum), solvent-de	5 - < 10 %				
	265-169-7	649-474-00-6	01-2119471299-27			
	Asp. Tox. 1; H304					
80939-62-4	Amines, C11-14-branched alkyl, r		1 - < 5 %			
	279-632-6		01-2119976322-36			
	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2; H315 H319 H411					

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

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc. I	ecific Conc. Limits, M-factors and ATE			
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	5 - < 10 %		
	dermal: LD50 =	= > 5000 mg/kg; oral: LD50 = > 5000 mg/kg			
64742-56-9	265-159-2	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified	5 - < 10 %		
	dermal: LD50 =	l: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg			
64742-65-0	265-169-7	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified	5 - < 10 %		
	dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg				
80939-62-4	279-632-6	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	1 - < 5 %		
dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg					

#### **Further Information**

No information available.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

# **General information**

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

### After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a doctor.

# After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.



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### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let 1 glass of water be drunken in little sips (dilution effect).

Do NOT induce vomiting.

### 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

First Aid, decontamination, treatment of symptoms.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

- alcohol resistant foam
- Water spray jet
- Carbon dioxide (CO2)
- Dry extinguishing powder

# Unsuitable extinguishing media

Full water jet

# 5.2. Special hazards arising from the substance or mixture

Heating causes rise in pressure with risk of bursting.

# 5.3. Advice for firefighters

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

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

Special protective equipment for firefighters: Protective clothing.

### **Additional information**

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

### General advice

Provide adequate ventilation.

Safe handling: see section 7

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains.

# 6.3. Methods and material for containment and cleaning up



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#### For containment

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

Personal protection equipment: see section 8

# Advice on protection against fire and explosion

No special measures are necessary.

### Advice on general occupational hygiene

Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat, drink or smoke.

### Further information on handling

Keep container tightly closed and dry.

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

### Requirements for storage rooms and vessels

Store in a cool dry place. Keep container tightly closed.

Keep/Store only in original container.

Protect from direct sunlight.

Protect against: Frost

### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

# Further information on storage conditions

Keep away from:

- Frost

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

No information available.

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

# 8.1. Control parameters



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# **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy i	paraffinic; Baseoil - unspecified		
Consumer DN	IEL, long-term	inhalation	local	1,19 mg/m³
Worker DNEL	., long-term	inhalation	systemic	2,73 mg/m³
Worker DNEL	., long-term	inhalation	local	5,58 mg/m³
Worker DNEL	., long-term	dermal	systemic	0,97 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	0,74 mg/kg bw/day
64742-56-9	Distillates (petroleum), solvent-dewaxed ligh	nt paraffinic; Baseoil - unspecified		
Worker DNEL	., long-term	inhalation	systemic	2,73 mg/m³
Worker DNEL	., long-term	inhalation	local	5,58 mg/m³
Worker DNEL	., long-term	dermal	systemic	0,97 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	1,19 mg/m³
Consumer DN	IEL, long-term	oral	systemic	0,74 mg/kg bw/day
64742-65-0	Distillates (petroleum), solvent-dewaxed her	avy paraffinic; Baseoil - unspecified		
Worker DNEL	., long-term	inhalation	systemic	2,73 mg/m³
Worker DNEL	., long-term	inhalation	local	5,58 mg/m³
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	local	1,19 mg/m³
Consumer DN	IEL, long-term	oral	systemic	0,74 mg/kg bw/day
80939-62-4	Amines, C11-14-branched alkyl, monohexyl	l and dihexyl phosphates		
Worker DNEL, long-term		inhalation	systemic	0,2 mg/m³
Worker DNEL, long-term		dermal	systemic	0,03 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,05 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,01 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,01 mg/kg bw/day



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#### **PNEC values**

CAS No	Substance			
Environmental	Environmental compartment			
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			
Secondary poi	soning	9,33 mg/kg		
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified			
Secondary poi	soning	9,33 mg/kg		
64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified				
Secondary poi	9,33 mg/kg			
80939-62-4 Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates				
Freshwater		0,055 mg/l		
Freshwater (in	0,01 mg/l			
Marine water	Marine water			
Freshwater se	239,64 mg/kg			
Marine sedime	23,964 mg/kg			
Micro-organisr	1 mg/l			
Soil	47,76 mg/kg			

# 8.2. Exposure controls

# Appropriate engineering controls

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

Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

# Individual protection measures, such as personal protective equipment

### Eye/face protection

Suitable eye protection:

- Eye glasses with side protection
- goggles

### **Hand protection**

Tested protective gloves must be worn: EN ISO 374

NBR (Nitrile rubber),

Wearing time with permanent contact: Thickness of the glove material: >= 0,4 mm, Breakthrough time: >480 min

Wearing time with occasional contact (splashes): Thickness of the glove material: >= 0,1 mm, Breakthrough time: > 30 min

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.

Breakthrough times and swelling properties of the material must be taken into consideration.

# Skin protection

Wear suitable protective clothing.

### Respiratory protection

Usually no personal respirative protection necessary.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be



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worn.

Filtering device (full mask or mouthpiece) with filter: A-P2

Thermal hazards

No data available

**Environmental exposure controls** 

No special measures are necessary.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: yellow - amber

Test method

Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:

Sublimation point:No data availableSoftening point:No data availablePour point:No data availableFlash point:225 °C

**Flammability** 

Solid/liquid: No data available
Gas: No data available

**Explosive properties** 

not explosive according to EU A.14

Lower explosion limits:

Upper explosion limits:

No data available

No data available

Auto-ignition temperature:

No data available

Self-ignition temperature

Solid: No data available Gas: No data available Decomposition temperature: No data available pH-Value: not applicable Viscosity / dynamic: No data available Viscosity / kinematic: 478 mm²/s

(at 40 °C)

Water solubility: Immiscible

Solubility in other solvents

No information available.

Partition coefficient n-octanol/water: No data available



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Vapour pressure: No data available

(at 20 °C)

Density (at 20 °C): 0,96 g/cm<sup>3</sup>

Relative vapour density: >1 (air=1)

### 9.2. Other information

### Information with regard to physical hazard classes

Oxidizing properties

No information available.

#### Other safety characteristics

Evaporation rate: <1 (Ether=1)

#### **Further Information**

No information available.

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

### 10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

# 10.3. Possibility of hazardous reactions

This material is considered to be non-reactive under normal use conditions.

# 10.4. Conditions to avoid

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

# 10.5. Incompatible materials

No information available.

# 10.6. Hazardous decomposition products

Nitrogen oxides (NOx), Carbon dioxide (CO2), Carbon monoxide

# **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.



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CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified						
	oral	LD50 mg/kg	> 5000	Rat	Study report (1982)	OECD Guideline 401	
	dermal	LD50 mg/kg	> 5000	Rabbit	Study report (1982)	OECD Guideline 402	
64742-56-9	Distillates (petroleum), se	olvent-dewax	ed light para	uffinic; Baseoil - unspecifie	d		
	oral	LD50 mg/kg	> 5000	Rat	Study report (1982)	OECD Guideline 401	
	dermal	LD50 mg/kg	> 5000	Rabbit	Study report (1982)	OECD Guideline 402	
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified						
	oral	LD50 mg/kg	> 5000	Rat	Study report (1982)	OECD Guideline 401	
	dermal	LD50 mg/kg	> 5000	Rabbit	Study report (1982)	OECD Guideline 402	
80939-62-4	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates						
	oral	LD50 mg/kg	> 5000	Rat	Study report (1981)	OECD Guideline 401	
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1984)	OECD Guideline 402	

### Irritation and corrosivity

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

# Sensitising effects

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

### 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.

# 11.2. Information on other hazards

# **Endocrine disrupting properties**

No data available

# **SECTION 12: Ecological information**

# 12.1. Toxicity



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CAS No	Chemical name									
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method			
64742-54-7	Distillates (petroleum), hy	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified								
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203			
	Fish toxicity	NOEC mg/l	>= 1000	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a			
64742-56-9	Distillates (petroleum), so	lvent-dewax	ced light para	ffinic; Ba	seoil - unspecified					
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203			
	Fish toxicity	NOEC mg/l	>= 1000	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a			
64742-65-0	Distillates (petroleum), so	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified								
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203			
	Fish toxicity	NOEC mg/l	>= 1000	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a			
80939-62-4	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates									
	Acute algae toxicity	ErC50 mg/l	> 10	72 h	Pseudokirchneriella subcapitata	Study report (2007)	OECD Guideline 201			
	Acute crustacea toxicity	EC50	> 1 mg/l	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202			
	Crustacea toxicity	NOEC mg/l	> 10	22 d	Daphnia magna	Study report (2014)	OECD Guideline 211			

# 12.2. Persistence and degradability

No information available.

# 12.3. Bioaccumulative potential

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
80939-62-4	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	1,5 - 2,3

# **BCF**

CAS No	Chemical name	BCF	Species	Source
	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	6,63		Calculation (2013)

# 12.4. Mobility in soil

No information available.

# 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.



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#### 12.7. Other adverse effects

No information available.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Disposal recommendations**

Dispose of waste according to applicable legislation.

#### Contaminated packaging

Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Dispose of waste according to applicable legislation.

# **SECTION 14: Transport information**

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 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 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 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 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 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)

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 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: Yes

Danger releasing substance: Hydrocarbons, C7-C9, isoalkanes

# 14.6. Special precautions for user

No information available.

#### 14.7. Maritime transport in bulk according to IMO instruments

No information available.

# **SECTION 15: Regulatory information**

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

#### **EU** regulatory information



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Restrictions on use (REACH, annex XVII):

Entry 28, Entry 75

Information according to 2012/18/EU

E2 Hazardous to the Aquatic Environment

(SEVESO III):

**National regulatory information** 

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

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified

Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates

### **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 1,4,5,6,7,8,9,11,12,13,15.

### 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)

RID:Règlement international conernat le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Refulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

CAS: Chemical Abstracts Service (division of the American Chemical Society) GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effectice concentration, 50 percent

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

**EUH210** Safety data sheet available on request.

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