

according to Regulation (EC) No 1907/2006

# **HIGHTEC Form NMU 150**

Revision date: 06.04.2023

Product code: 60160

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

### 1.1. Product identifier

HIGHTEC Form NMU 150

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

## Use of the substance/mixture

Umformschmierstoff

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

Company name:	ROWE Mineralölwerk GmbH	
Street:	Langgewann 101	
Place:	D-67547 Worms	
Telephone:	+49 (0)6241 5906-0	Telefax:+49 (0)6241 5906-999
E-mail:	info@rowe-oil.com	
Contact person:	Product Compliance	
E-mail:	sdb@rowe-oil.com	
Internet:	www.rowe-oil.com	
<u>1.4. Emergency telephone</u> number:	Ireland: Public (8am-10pm) +353 180 921 66 1809 2566 other Countries: Emergency CON GmbH +49 (0)6132-84463	

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

H412

## Regulation (EC) No 1272/2008

# Hazard statements

Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

P103	Read carefully and follow all instructions.
P273	Avoid release to the environment.
P501	Dispose of contents/container to of the disposal according to local regulations.

### 2.3. Other hazards

No information available.

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

### 3.2. Mixtures



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### **Relevant ingredients**

CAS No	Chemical name	Chemical name				
	EC No	Index No	REACH No			
	Classification (Regulation (EC) No	1272/2008)				
68603-55-4	Amine, C12-14-Alkyl-, C6-C10 Alky	l phosphate		0.1 - < 0.3 %		
	271-663-3		01-2120768450-54			
	Skin Irrit. 2, Aquatic Acute 1, Aquati	c Chronic 3; H315 H400 H412				
	Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl			< 0.1 %		
	701-068-0		01-2119473798-17			
	Acute Tox. 4, Skin Corr. 1B, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H335 H373 H304 H400 H410					

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

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

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CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	imits, M-factors and ATE	
68603-55-4	271-663-3	Amine, C12-14-Alkyl-, C6-C10 Alkyl phosphate	0.1 - < 0.3 %
	dermal: LD50 =	> 2000 mg/kg; oral: LD50 = > 5000 mg/kg Aquatic Acute 1; H400: M=1	
	701-068-0	Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl	< 0.1 %
dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1300 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10			

### **Further Information**

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

#### **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 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.

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## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

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

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

Non-flammable.

# 5.3. Advice for firefighters

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



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### 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

Avoid contact with skin, eyes and clothes. Do not breathe mist/vapours/spray.

#### 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 to enter into surface water or drains.

#### 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

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.

### 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.

### 7.3. Specific end use(s)

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

# 8.1. Control parameters

Revision No: 1,09 - Replaces version: 1,08



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### **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
68603-55-4	Amine, C12-14-Alkyl-, C6-C10 Alkyl phosphate			
Worker DNEL,	long-term	dermal	systemic	0,0156 mg/kg bw/day
Consumer DN	EL, long-term	dermal	systemic	0,00556 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,00556 mg/kg bw/day
	Amines, C12-18-(even numbered) and C18-(unsaturated)	alkyl		
Worker DNEL,	long-term	inhalation	systemic	0,38 mg/m <sup>3</sup>
Worker DNEL,	long-term	inhalation	local	1 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	1 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	0,035 mg/m³
Consumer DN	EL, long-term	oral	systemic	0,04 mg/kg bw/day

### **PNEC** values

CAS No	Substance	
Environment	tal compartment	Value
68603-55-4	Amine, C12-14-Alkyl-, C6-C10 Alkyl phosphate	
Freshwater		0,000315 mg/l
Freshwater (	(intermittent releases)	0,00315 mg/l
Freshwater s	sediment	0,0767 mg/kg
Marine sedin	nent	0,00767 mg/kg
Micro-organi	isms in sewage treatment plants (STP)	3,26 mg/l
Soil		0,0152 mg/kg
	Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl	
Freshwater		0,00026 mg/l
Freshwater (	(intermittent releases)	0,0016 mg/l
Marine water	r	0,000026 mg/l
Freshwater s	sediment	3,76 mg/kg
Marine sedin	nent	0,376 mg/kg
Micro-organi	isms in sewage treatment plants (STP)	0,55 mg/l
Soil		10 mg/kg

# 8.2. Exposure controls

### Individual protection measures, such as personal protective equipment

## Eye/face protection

Wear eye/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.



Test method

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# Skin protection

# Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### **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:	brown
Odour:	characteristic

Melting point/freezing point:	not determined	
Boiling point or initial boiling point and	not determined	
boiling range:		
Flammability:	Not readily combustible.	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	>150 °C	DIN ISO 2592
Auto-ignition temperature:	not determined	
Decomposition temperature:	not determined	
pH-Value:	not applicable	DIN 51369
Viscosity / kinematic:	~ 155 mm²/s	DIN 51562
(at 40 °C)		
Water solubility:	practically insoluble	
(at 20 °C)		
Solubility in other solvents		
Soluble in hydrocarbons (mineral oil.)		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	>0,1 hPa	calculated.
(at 20 °C)		D.N. 64767
Density (at 15 °C):	~ 0,900 g/cm <sup>3</sup>	DIN 51757
Relative vapour density:	not determined	
Particle characteristics:	not relevant	

### 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

none

#### 10.5. Incompatible materials

No information available.

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### 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			
68603-55-4	Amine, C12-14-Alkyl-, C6	-C10 Alkyl ph	osphate						
	oral	LD50 mg/kg	> 5000	Rat	Study report (1981)	OECD Guideline 401			
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1984)	OECD Guideline 402			
	Amines, C12-18-(even nu	Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl							
	oral	LD50 mg/kg	1300	Rat	Study report (1983)	OECD Guideline 401			
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1985)	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

#### Other information

No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.



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CAS No	Chemical name	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
68603-55-4	Amine, C12-14-Alkyl-, C6-C10 Alkyl phosphate							
	Acute algae toxicity	ErC50 mg/l	0,58	72 h	Desmodesmus subspicatus	REACh Registration Dossier	OECD Guideline 201	
	Acute crustacea toxicity	EC50 0,315 mg/l	ca.	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202	
	Algae toxicity	NOEC mg/l	0,16	3 d	Desmodesmus subspicatus	REACh Registration Dossier		

# 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
68603-55-4	Amine, C12-14-Alkyl-, C6-C10 Alkyl phosphate	
	Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl	5,16

#### BCF

CAS No	Chemical name	BCF	Species	Source
68603-55-4	Amine, C12-14-Alkyl-, C6-C10 Alkyl phosphate	ca. 45,66		REACh Registration D
	Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl	173		Environmental Toxico

#### 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

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

### **Disposal recommendations**

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

130205 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



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No dangerous good in sense of this transport regulation.

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No dangerous good in sense of this transport regulation.

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### List of Wastes Code - used product

130205 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.

# **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:

# Inland waterways transport (ADN)

14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:

#### Marine transport (IMDG)

14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:

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

14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.4. Packing group:

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

### 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

No

EU regulatory information	
Restrictions on use (REACH, annex X	VII):
Entry 3, 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 c	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).

1 - slightly hazardous to water



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### 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): 9,12,16.

### Abbreviations and acronyms

Acute Tox: Acute toxicity Asp. Tox: Aspiration hazard Skin Corr: Skin corrosion Skin Irrit: Skin irritation STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure Aquatic Acute: Acute aquatic hazard 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 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).



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

	Classification	Classification procedure
	Aquatic Chronic 3; H412	Calculation method
Relevant H and EUH statements (number and full text)		
H302 Harmful if swallowed.		ul if swallowed.

11002	
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
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.
H412	Harmful to aquatic life with long lasting effects.

### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)