

PLATIN ZHM

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SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

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UFI: 9HR7-VVN9-U00H-9QN0

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

Central hydraulic motor

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	
Responsible Department:	sdb@rowe-oil.com	

1.4. Emergency telephone number: Giftnotruf Mainz (DE; E) +49 (0)6131-19240

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
Regulation (EC) No. 1272/2008

Hazard categories:
 Skin corrosion/irritation: Skin Irrit. 2
 Hazardous to the aquatic environment: Aquatic Chronic 3
 Hazard Statements:
 Causes skin irritation.
 Harmful to aquatic life with long lasting effects.

2.2. Label elements
Regulation (EC) No. 1272/2008
Signal word: Warning

Pictograms:

Hazard statements

H315	Causes skin irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P103	Read carefully and follow all instructions.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of Water and soap.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to of the disposal according to local regulations.

Special labelling of certain mixtures

according to Regulation (EC) No 1907/2006

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EUH208 Contains 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, 1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl. May produce an allergic reaction.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
64742-53-6	Baseoil - unspecified, Distillates (petroleum), hydrotreated light naphthenic	30 - < 60 %
	265-156-6	649-466-00-2
	01-2119480375-34	
	Asp. Tox. 1; H304	
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic	15 - < 30 %
	265-158-7	01-2119487077-29
	Asp. Tox. 1; H304	
64742-46-7	Distillates (petroleum), hydrotreated middle, Gasoil - unspecified	15 - < 30 %
	265-148-2	649-221-00-X
	01-2119489867-12	
	Acute Tox. 4, Skin Irrit. 2, Asp. Tox. 1, Aquatic Chronic 2; H332 H315 H304 H411	
	2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with eicosyl 2-methyl-2-propenoate, hexadecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, pentadecyl 2-methyl-2-propenoate, tetradecyl 2-methyl-2-propenoate and	5 - < 15 %
	Eye Irrit. 2; H319	
72623-86-0	Baseoil - unspecified, Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	2.5 - < 5 %
	276-737-9	01-2119474878-16
	Asp. Tox. 1; H304	
128-39-2	2,6-di-tert-butylphenol	0.3 - < 1 %
	204-884-0	01-2119490822-33
	Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H315 H400 H410	
268567-32-4	3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid	0.1 - < 0.3 %
	434-070-2	01-2119658068-31
	Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H318 H317 H412	
94270-86-7	1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl	0.1 - < 0.3 %
	939-700-4	01-2119982395-25
	Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H315 H317 H400 H411	
	Reaction products of fatty acids, C16-18, C18 unsatd. with Amines, polyethylenepoly-, triethylenetetramine fraction and 3-(C9-C15, C12 rich, alk-1-enyl)dihydro-2,5-furandione	0.1 - < 0.3 %
	947-263-6	01-2120761103-66
	Repr. 2, Skin Irrit. 2, Aquatic Chronic 4; H361 H315 H413	

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

Further Information

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

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SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink 1 glass 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**

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

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.

6.4. 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.

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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)

Central hydraulic motor

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 fatty acids, C16-18, C18 unsatd. with Amines, polyethylenepoly-, triethylenetetramine fraction and 3-(C9-C15, C12 rich, alk-1-enyl)dihydro-2,5-furandione			

PNEC values

CAS No	Substance		
Environmental compartment	Value		
	Reaction products of fatty acids, C16-18, C18 unsatd. with Amines, polyethylenepoly-, triethylenetetramine fraction and 3-(C9-C15, C12 rich, alk-1-enyl)dihydro-2,5-furandione		

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, drink, smoke, sniff.

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

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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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	Test method DIN 51369
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Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Pour point:	~ -51 °C
:	DIN ISO 3016
Flash point:	~ 126 °C ISO 2592

Flammability

Solid:	not applicable
Gas:	not applicable

Explosive properties

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	No data available
Decomposition temperature:	not determined

Oxidizing properties

The product is not: oxidising.

Vapour pressure: (at 20 °C)	<0,1 hPa	calculated.
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Density (at 15 °C):	~ 0,87 g/cm ³	DIN 51757
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Water solubility: (at 20 °C)	practically insoluble
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Solubility in other solvents

Soluble in hydrocarbons (mineral oil.)

Partition coefficient n-octanol/water:	not determined	
Viscosity / kinematic: (at 40 °C)	~ 21 mm ² /s	DIN 51562
Relative vapour density:	not determined	
Evaporation rate:	not determined	
Solvent separation test:	No data available	
Solvent content:	none Solvents	

9.2. Other information

Solid content:	not determined
none	

SECTION 10: Stability and reactivity

according to Regulation (EC) No 1907/2006

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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.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-46-7	Distillates (petroleum), hydrotreated middle, Gasoil - unspecified				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rabbit		
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 1.72 mg/l	Rat male.		
128-39-2	2,6-di-tert-butylphenol				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >10000 mg/kg	Rabbit		
268567-32-4	3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
94270-86-7	1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl				
	oral	LD50 >2000 mg/kg	Rat		
	Reaction products of fatty acids, C16-18, C18 unsatd. with Amines, polyethylenepoly-, triethylenetetramine fraction and 3-(C9-C15, C12 rich, alk-1-enyl)dihydro-2,5-furandione				
	oral	LD50 >2000 mg/kg	Ratte		

Further information

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

SECTION 12: Ecological information
12.1. Toxicity

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Harmful to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
268567-32-4	3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid					
	Acute fish toxicity	LC50 38 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Acute crustacea toxicity	EC50 53 mg/l	48 h	Daphnia magna		
94270-86-7	1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl					
	Acute fish toxicity	LC50 mg/l 1-10	96 h			
	Acute crustacea toxicity	EC50 mg/l 1-10	48 h			
	Acute bacteria toxicity	(50-100 mg/l)				
	Reaction products of fatty acids, C16-18, C18 unsatd. with Amines, polyethylenepoly-, triethylenetetramine fraction and 3-(C9-C15, C12 rich, alk-1-enyl)dihydro-2,5-furandione					
	Acute fish toxicity	LC50 mg/l 1000	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 496 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 mg/l 1000	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(1000 mg/l)	3 h			

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
94270-86-7	1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl	>6

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
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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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: 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)

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 information available.

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

not applicable

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 3, Entry 28

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

according to Regulation (EC) No 1907/2006

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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 to 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
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%
 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 table at <http://abbrev.esdscom.eu>

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
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.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, 1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl. May produce an allergic reaction.

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 above data are intended to describe our product in terms of any safety requirements to be observed. They reflect the state of our current knowledge and experience and shall not be construed as warranted characteristics. Any warranty for accuracy and completeness shall be expressly excluded.

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