

**VA-ZHM**

Revision date: 14.09.2017

Page 1 of 9

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

VA-ZHM

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet**

Company name:	Vierol AG	
Street:	Karlstrasse 19	
Place:	D-26123 Oldenburg	
Telephone:	+49 (0) 441 – 210 20 – 0	Telefax: +49 (0) 441 – 210 20 –111
e-mail:	info@vierol.de	
Internet:	www.vierol.de	
Responsible Department:	Giftinformationszentrum Nord (Göttingen)	
	+49 (0)551/19240	

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

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard statements**

Harmful to aquatic life with long lasting effects.

**Precautionary statements**

Avoid release to the environment.

Dispose of contents/container to Dispose of waste according to applicable legislation..

**Special labelling of certain mixtures**

Contains Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-(9CI), reaction products of P-/N-/S-containing compounds with propionic acid. May produce an allergic reaction.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

## VA-ZHM

Revision date: 14.09.2017

Page 2 of 9

## Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
64742-53-6	Baseoil - unspecified, Distillates (petroleum), hydrotreated light naphthenic			30-<60 %
	265-156-6	649-466-00-2	64-9466002	
	Asp. Tox. 1; H304			
64742-46-7	Distillates (petroleum), hydrotreated middle, Gasoil - unspecified			15-<30 %
	265-148-2	649-221-00-X		
	Acute Tox. 4, Skin Irrit. 2, Asp. Tox. 1, Aquatic Chronic 2; H332 H315 H304 H411			
64742-55-8	Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic			15-<30 %
	265-158-7	649-468-00-3	01-2119487077-29	
	Asp. Tox. 1; H304			
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based			5-<15 %
	276-738-4	649-483-00-5	01-2119474889-13	
	Asp. Tox. 1; H304			
	2,6-Di-tert-butylphenol			<1 %
	204-884-0		01-2119490822-33	
	Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H315 H400 H410			
128-39-2	2,6-di-tert-butylphenol			<1 %
	204-884-0		01-2119490822-33	
	Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H315 H400 H410			
268567-32-4	Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-(9CI)			<1 %
	434-070-2		01-2119658068-31	
	Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H318 H317 H412			
	reaction products of P-/N-/S-containing compounds with propionic acid			<1 %
	939-700-4		01-2119982395-25	
	Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H315 H317 H400 H411			

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

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

## General information

Self-protection of the first aider

Do not put any product-impregnated cleaning rags into your trouser pockets. Immediately remove any contaminated clothing, shoes or stockings.

## 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 skin, wash immediately with plenty of water and soap.

## After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

**VA-ZHM**

Revision date: 14.09.2017

Page 3 of 9

**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**Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Foam**Unsuitable extinguishing media**

Strong water jet

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

Non-flammable. Vapours can form explosive mixtures with air.

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide Sulphur oxides Phosphorus oxidesHydrogen sulphide (H<sub>2</sub>S)**5.3. Advice for firefighters**

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

In case of fire and/or explosion do not breathe fumes.

**Additional information**

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

Special danger of slipping by leaking/spilling product. Wear suitable protective clothing.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

**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**

Conditions to avoid aerosol or mist formation

**Advice on protection against fire and explosion**

Fire class B

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

## VA-ZHM

Revision date: 14.09.2017

Page 4 of 9

**Requirements for storage rooms and vessels**

Keep container tightly closed.

**Advice on storage compatibility**

Do not store together with: Food flavouring and nutrient Oxidising agent

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
64742-55-8	Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic			
	Worker DNEL, long-term	inhalation	local	5,4 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	local	1,2 mg/m <sup>3</sup>
128-39-2	2,6-di-tert-butylphenol			
	Worker DNEL, long-term	dermal	systemic	2,77 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	19,6 mg/m <sup>3</sup>
	Consumer DNEL, long-term	oral	systemic	1,67 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	5,8 mg/m <sup>3</sup>

**PNEC values**

CAS No	Substance	Environmental compartment	Value
128-39-2	2,6-di-tert-butylphenol		
	Soil		0,0389 mg/kg

**8.2. Exposure controls****Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

**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.

## VA-ZHM

Revision date: 14.09.2017

Page 5 of 9

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: Liquid  
 Colour: green golden  
 Odour: characteristic

**Test method**

pH-Value: not determined

**Changes in the physical state**

Melting point: not determined

Initial boiling point and boiling range: not determined

Pour point: ~-51 °C ISO 3016

Flash point: &gt; 90 °C DIN ISO 2592

**Flammability**

Solid: not applicable

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

**Auto-ignition temperature**

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties**

Not oxidising.

Vapour pressure: <0,1 hPa berechnet  
 (at 20 °C)Density (at 15 °C): ~0,86 g/cm<sup>3</sup> DIN 51757

Water solubility: practically insoluble

**Solubility in other solvents**

not determined

Partition coefficient: not determined

Viscosity / kinematic: ~21 mm<sup>2</sup>/s DIN 51562  
 (at 40 °C)

Vapour density: not determined

Evaporation rate: not determined

**9.2. Other information**

Solid content: not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No thermal decomposition if properly stored / handled /transported.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

## VA-ZHM

Revision date: 14.09.2017

Page 6 of 9

**10.4. Conditions to avoid**

none

**10.5. Incompatible materials**

Oxidising agent, strong

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****ATEmix calculated**

ATE (inhalative vapour) 8,75 mg/l

**Acute toxicity**

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
64742-46-7	Distillates (petroleum), hydrotreated middle, Gasoil - unspecified					
	inhalative vapour	ATE 11 mg/l				
	inhalative aerosol	ATE 1,5 mg/l				
64742-55-8	Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic					
	oral	LD50 >5000 mg/kg	Rat	OECD 420		
	dermal	LD50 >5000 mg/kg	Rabbit	OECD 402		
	inhalative (4 h) vapour	LC50 >5 mg/l	Rat	OECD 403		
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based					
	oral	LD50 >5000 mg/kg	Rat	OECD 401		
	dermal	LD50 >2000 mg/kg	Rabbit	OECD 402		
	inhalative (4 h) vapour	LC50 >5,53 mg/l	Rat	OECD 403		
128-39-2	2,6-di-tert-butylphenol					
	oral	LD50 >5000 mg/kg	Rat			
	dermal	LD50 >2000 mg/kg	Rabbit			

**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
128-39-2	2,6-di-tert-butylphenol					
	Acute fish toxicity	LC50 1 mg/l	96 h			
	Acute algae toxicity	ErC50 1,2 mg/l	72 h			
	Acute crustacea toxicity	EC50 0,45 mg/l	48 h	Daphnia magna (Big water flea)		
	Fish toxicity	NOEC 0,3 mg/l	28 d			

## VA-ZHM

Revision date: 14.09.2017

Page 7 of 9

**12.2. Persistence and degradability**

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	2,6-Di-tert-butylphenol			
	Zahn-Wellens	24%	28	
	Sturm	5%	28	

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	>6
	2,6-Di-tert-butylphenol	4,5
128-39-2	2,6-di-tert-butylphenol	4,48

**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.

**Waste disposal number of waste from 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

**Waste disposal number of 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.

## VA-ZHM

Revision date: 14.09.2017

Page 8 of 9

**Inland waterways transport (ADN)**

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

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

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	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****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****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%

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

May be fatal if swallowed and enters airways.  
 Causes skin irritation.



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**VA-ZHM**

Revision date: 14.09.2017

Page 9 of 9

May cause an allergic skin reaction.  
Causes serious eye damage.  
Harmful if inhaled.  
Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.  
Toxic to aquatic life with long lasting effects.  
Harmful to aquatic life with long lasting effects.  
Contains Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-(9CI), reaction products of P-/N-/S-containing compounds with propionic acid. May produce an allergic reaction.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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