

### SAE 0W-16

Revision date: 30.07.2025

Page 1 of 12

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

### 1.1. Product identifier

SAE 0W-16

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

#### Use of the substance/mixture

Motor oil multigrade

#### Uses advised against

No information available.

### 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	

### 1.4. Emergency telephone number:

Giftinformationszentrum Nord (Göttingen)  
+49 (0)551/19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### GB CLP Regulation

##### Hazard statements

H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P273 Avoid release to the environment.  
P501 Dispose of contents / container in accordance with official regulations.

### 2.3. Other hazards

Endocrine disrupting properties: phenol, dodecyl-, branched.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

### SAE 0W-16

Revision date: 30.07.2025

Page 2 of 12

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			28 - < = 60 %
	265-157-1	649-467-00-8	01-2119484627-25	
	Asp. Tox. 1; H304			
121158-58-5	phenol, dodecyl-, branched			0 - 0,03 %
	310-154-3	604-092-00-9	01-2119513207-49	
	Repr. 1B, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H360F H314 H318 H400 H410			

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. Limits, M-factors and ATE	
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	28 - < = 60 %
		inhalation: LC50 = 5,53 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
121158-58-5	310-154-3	phenol, dodecyl-, branched	0 - 0,03 %
		dermal: LD50 = ca. 15000 mg/kg; oral: LD50 = 2100 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	

#### Further Information

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: phenol, dodecyl-, branched

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove affected person from the danger area and lay down.  
Do not leave affected person unattended.  
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

Remove person to fresh air and keep comfortable for breathing.  
In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.  
Take off contaminated clothing and wash it before reuse.  
In case of skin irritation, consult a physician.

#### 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 thoroughly with water.  
Let water be drunk in little sips (dilution effect).  
Do NOT induce vomiting.  
In all cases of doubt, or when symptoms persist, seek medical advice.

### 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.

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

- alcohol resistant foam
- Carbon dioxide (CO<sub>2</sub>).
- Extinguishing powder
- Water mist

#### **Unsuitable extinguishing media**

High power water jet.

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

Formation of toxic gases is possible during heating or in case of fire.

In case of fire may be liberated:

- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>).
- Nitrogen oxides (NO<sub>x</sub>)
- Pyrolysis products, toxic

### **5.3. Advice for firefighters**

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

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

#### **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**

Keep people at a distance and stay on the windward side.

Special danger of slipping by leaking/spilling product.

#### **For non-emergency personnel**

Wear protective gloves/protective clothing and eye/face protection.

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

Prevent spread over a wide area (e.g. by containment or oil barriers).

### **6.3. Methods and material for containment and cleaning up**

#### **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.

#### **For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

Remove from the water surface (e.g. skimming, sucking).

### **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**

- Avoid formation of oil dust.
- Use personal protection equipment.
- Do not put any product-impregnated cleaning rags into your trouser pockets.
- Clear spills immediately.

##### **Advice on protection against fire and explosion**

- No special fire protection measures are necessary.
- Take precautionary measures against static discharges.
- Keep away from sources of ignition - No smoking.

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

##### **Requirements for storage rooms and vessels**

- Keep container tightly closed and in a well-ventilated place.
- Keep only in the original container. Store in a cool dry place. (Protect from moisture.)
- Floors should be impervious, resistant to liquids and easy to clean.

##### **Hints on joint storage**

- Do not store together with:
  - Materials capable of ignition under almost all normal temperature conditions
  - Explosives

##### **Further information on storage conditions**

- Note Regulation on facilities for the storage, filling and handling water-polluting substances. ...

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

- Motor oil multigrade

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

#### **8.1. Control parameters**

**SAE 0W-16**

Revision date: 30.07.2025

Page 5 of 12

**DNEL/DMEL values**

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified		
Worker DNEL, long-term	inhalation	systemic	2,73 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	5,58 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	0,97 mg/kg bw/day
Consumer DNEL, long-term	inhalation	local	1,19 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	0,74 mg/kg bw/day
121158-58-5	phenol, dodecyl-, branched		
Worker DNEL, acute	inhalation	systemic	44,18 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	0,25 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	166 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,79 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	13,26 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	0,075 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	50 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,075 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	1,26 mg/kg bw/day

**PNEC values**

CAS No	Substance	
Environmental compartment	Value	
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	
Secondary poisoning	9,33 mg/kg	
121158-58-5	phenol, dodecyl-, branched	
Freshwater	0,000074 mg/l	
Freshwater (intermittent releases)	0,00037 mg/l	
Marine water	0,000007 mg/l	
Freshwater sediment	0,226 mg/kg	
Marine sediment	0,027 mg/kg	
Secondary poisoning	4 mg/kg	
Micro-organisms in sewage treatment plants (STP)	100 mg/l	
Soil	0,118 mg/kg	

**Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls**



**Appropriate engineering controls**

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

**Protective and hygiene measures**

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and after work.

When using do not eat, drink, smoke, sniff.

**Eye/face protection**

During filling, metering, mixing and sampling must be used:

Wear eye/face protection. EN 166

**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.

Recommended glove articles: EN ISO 374

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h

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:		
Odour:	characteristic	
Odour threshold:	not determined	
pH-Value:		not determined

**Changes in the physical state**

Melting point/freezing point:		-48 °C
Boiling point or initial boiling point and boiling range:		not determined
Pour point:		not determined
Flash point:		234 °C

**Flammability**

Solid/liquid:		not applicable
		not applicable

**Explosive properties**

The product is not: Explosive. 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:		not determined
Decomposition temperature:		not determined

### SAE 0W-16

Revision date: 30.07.2025

Page 7 of 12

#### **Oxidizing properties**

The product is not: oxidising.

Vapour pressure:	not determined
Density (at 20 °C):	0,848 g/cm <sup>3</sup>
Water solubility:	Immiscible

#### **Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:	not determined
Viscosity / kinematic: (at 40 °C)	39 mm <sup>2</sup> /s
Relative vapour density:	not determined
Evaporation rate:	not determined

#### **9.2. Other information**

Solid content:	not determined
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### 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**

The formation of combustible vapours is possible at temperatures above: Flash point

#### **10.4. Conditions to avoid**

Conditions to avoid: Thermal decomposition

#### **10.5. Incompatible materials**

Materials to avoid:

- Oxidizing agent
- Reducing agent
- Acids

#### **10.6. Hazardous decomposition products**

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>).
- Nitrogen oxides (NO<sub>x</sub>)
- Pyrolysis products, toxic

### SECTION 11: Toxicological information

#### **11.1. Information on hazard classes as defined in GB CLP Regulation**

##### **Acute toxicity**

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

##### **ATE<sub>mix</sub> calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

### SAE 0W-16

Revision date: 30.07.2025

Page 8 of 12

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1982)	OECD Guideline 402
	inhalation (4 h) dust/mist	LC50 5,53 mg/l	Rat		OECD Guideline 403
121158-58-5	phenol, dodecyl-, branched				
	oral	LD50 2100 mg/kg	Rat	Publication (1978)	OECD Guideline 401
	dermal	LD50 ca. 15000 mg/kg	Rabbit	Study report (1968)	OECD Guideline 402

#### Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: 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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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

See section: 12.6

### SECTION 12: Ecological information

#### 12.1. Toxicity

**SAE 0W-16**

Revision date: 30.07.2025

Page 9 of 12

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203
	Fish toxicity	NOEC >= 1000 mg/l	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
121158-58-5	phenol, dodecyl-, branched					
	Acute fish toxicity	LL50 40 mg/l	96 h	Pimephales promelas	Study report (1994)	OECD Guideline 203
	Acute algae toxicity	ErC50 0,15 mg/l	72 h	Desmodesmus subspicatus	Study report (2005)	OECD Guideline 201
	Acute crustacea toxicity	EC50 0,037 mg/l	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202
	Fish toxicity	NOEC 0,0037 mg/l	21 d	Daphnia magna (Big water flea)	ECHA Dossier	
	Crustacea toxicity	NOEC 0,004 mg/l	21 d	Daphnia magna	Study report (2005)	OECD Guideline 211
	Acute bacteria toxicity	EC50 > 1000 mg/l ( )	3 h	activated sludge of a predominantly industrial sew	Study report (2004)	OECD Guideline 209

**12.2. Persistence and degradability**

No data available

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
121158-58-5	phenol, dodecyl-, branched				
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	25%	28		
	Not readily biodegradable (according to OECD criteria)				

**12.3. Bioaccumulative potential**

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
121158-58-5	phenol, dodecyl-, branched	7,14

**BCF**

CAS No	Chemical name	BCF	Species	Source
121158-58-5	phenol, dodecyl-, branched	289	Oncorhynchus mykiss	Study report (2006)

**12.4. Mobility in soil**

No data available

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

**12.6. Endocrine disrupting properties**

Endocrine disrupting properties: phenol, dodecyl-, branched.

**12.7. Other adverse effects**

No information available.

**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.

#### **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)**

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

### **Inland waterways transport (ADN)**

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

### **Marine transport (IMDG)**

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

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

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

#### **EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):  
phenol, dodecyl-, branched

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30, Entry 75

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

### National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

### Additional information

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

### 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): 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16.

### 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>  
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

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

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H360F	May damage fertility.
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.)*