

according to Regulation (EG) 91/155/ EEC

## 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Trade Name:

**VAICO SAE 0W-40**

VAICO No.:

V60-0055, V60-0055\_S, V60-0056, V60-0181, V60-0057, V60-0182, V60-0274\_S

### 1.2. Informing department

VIEROL AG | Karlstraße 19 | 26123 Oldenburg | Germany

Telefon +49 441 - 210 20-0 | Telefax +49 441 - 210 20-111

### 1.3. Emergency telephone number

Telephone: 0049 (0)551/ 19240

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

2.1.1. Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

2.1.2. Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

2.2.1. Labeling according to Directive 67/548/EEC or 1999/45/EC

Extra phrases :

Contains Calcium long chain alkarylsulphonate(722503-68-6). May produce an allergic reaction.

### 2.3. Other hazards

No additional information available

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances  
Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Polyolefin polyamine succinimide, Polyol	(CAS No.) 147880-09-9	1-5	R53
HOB Calcium branched chain alkyl phenate sulphide (REACH-no)	(EC no) 291-829-9 01-2119524004-56	0,5-1,54	R53
Zinkalkyldithiophosphate	(CAS No.) 68649-42-3 (EC No) 272-028-3 (REACH No) 01-2119493635-27	0,5-1,5	Xi, R41 Xi; R38 N; R51/53
Calcium long chain alkarylsuphonate	(CAS No) 722503-68-6 (EC No) 271-877-7	0,1-0,99	Xi; R43 R53
Branched chain alkylphenol and branched chain calciumalkylphenol		0,1-0,15	Carc.Cat.2 Repr. Cat.1; R60 Xi; R36/38 N; R50/53
Polyolefin polyamine succinimide, Polyol	(CAS No) 147880-09-9	1-5	Aquatic Chronic 4, H413
HOB Calcium branched chain alkyl phenate sulphide	(EC No) 291-829-9 (REACH-No) 01-2119524004-56	0,5-1,5	Aquatic Chronic 4, H413
Zinkalkyldithiophosphate	(CAS No.) 68649-42-3 (EC No) 272-028-3 (REACH-No) 01-2119493635-27	0,5-1,5	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Calcium long chain alkarylsuphonate	(CAS No) 722503-68-6 (EC No) 271-877-7	0,1-0,99	Skin Sens. 1, H317 Aquatic Chronic 4, H413
Branched chain alkylphenol and branched chain calciumalkylphenol		0,1-0,15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 1B, H360Fd Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R-, H- and EUH-phrases: see section 16

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

- 4.1.1. First-aid measures after inhalation:  
Not expected to require first aid measures.
- 4.1.2. First-aid measures after skin contact:  
Wash skin with mild soap and water.
- 4.1.3. First-aid measures after eye contact:  
In case of eye contact, immediately rinse with clean water for 10-15 minutes.
- 4.1.4. First-aid measures after ingestion:  
Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

- 4.2.1. Symptoms/injuries after inhalation:  
Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- 4.2.2. Symptoms/injuries after skin contact:  
Not expected to present a significant skin hazard under anticipated conditions of normal use.
- 4.2.3. Symptoms/injuries after eye contact:  
Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
- 4.2.4. Symptoms/injuries after ingestion:  
Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

- 5.1.1. Suitable extinguishing media:  
Water fog. Foam. Powder. Dry chemical product.
- 5.1.2. Unsuitable extinguishing media:  
Do not use a heavy water stream.

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

- 5.2.1. Reactivity:  
None under normal conditions.

### 5.3. Advice for firefighters

- 5.3.1. Precautionary measures fire:  
Exercise caution when fighting any chemical fire.
- 5.3.2. Firefighting instructions:  
Use water spray or fog for cooling exposed containers.
- 5.3.3. Protection during firefighting:  
Do not enter fire area without proper protective equipment, including respiratory protection.

## 6. ACCIDENTAL RELEASE MEASURES

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### 6.1. Personal precautions, protective equipment and emergency procedures

- 6.1.1. For non-emergency personnel  
Protective equipment: Wear suitable protective clothing and gloves.
- 6.1.2. For emergency responders  
Protective equipment: Wear suitable protective clothing and gloves.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

- 6.3.1. For containment:  
Impound and recover large spill by mixing it with inert granular solids.
- 6.3.2. Methods for cleaning up:  
Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.
- 6.3.3. Other information:  
Spill area may be slippery. Use suitable disposal containers

### 6.4. Reference to other sections

No additional information available

## 7. HANDLING AND STORAGE

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### 7.1. Precautions for safe handling

- 7.1.1. Precautions for safe handling:  
Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.
- 7.1.2. Handling temperature:  
< 40 °C
- 7.1.3. Hygiene measures:  
Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

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

- 7.2.1. Storage temperature:  
< 40 °C
- 7.2.2. Storage area:  
Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

No additional information available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

- 8.1.1. Additional information:  
 5 mg/m<sup>3</sup> for oil mists (TWA, 8h-workday) recommended based upon the ACGIH TLV ( Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

### 8.2. Exposure controls

- 8.2.1. Personal protective equipment:  
 Safety glasses. Gloves.
- 8.2.2. Hand protection:  
 Wear suitable gloves resistant to chemical penetration.
- 8.2.3. Skin and body protection:  
 No special clothing/skin protection equipment is recommended under normal conditions of use.
- 8.2.4. Respiratory protection :  
 No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<i>Physical state</i>	<i>Liquid</i>
<i>Appearance</i>	<i>Oily liquid.</i>
<i>Colour</i>	<i>Yellow-brown.</i>
<i>Odour</i>	<i>Characteristic.</i>
<i>Odour threshold</i>	<i>No data available</i>
<i>pH</i>	<i>No data available</i>
<i>Relative evaporation rate (butylacetate=1)</i>	<i>No data available</i>
<i>Melting point</i>	<i>No data available</i>
<i>Freezing point</i>	<i>No data available</i>
<i>Boiling point</i>	<i>No data available</i>
<i>Flash point</i>	<i>215 °C @ DIN ISO 2592</i>
<i>Self ignition temperature</i>	<i>No data available</i>
<i>Decomposition temperature</i>	<i>No data available</i>
<i>Flammability (solid, gas)</i>	<i>No data available</i>
<i>Vapour pressure</i>	<i>No data available</i>
<i>Relative vapour density at 20 °C</i>	<i>No data available</i>
<i>Relative density</i>	<i>No data available</i>
<i>Density</i>	<i>840 kg/m<sup>3</sup> @15°C</i>
<i>Solubility</i>	<i>Slightly soluble, the product remains on the water surface.</i>
<i>Log Pow</i>	<i>No data available</i>
<i>Log Kow</i>	<i>No data available</i>
<i>Viscosity, kinematic</i>	<i>75,2 mm<sup>2</sup>/s @ 40°C</i>
<i>Viscosity, dynamic</i>	<i>No data available</i>
<i>Explosive properties</i>	<i>No data available</i>
<i>Oxidising properties</i>	<i>No data available</i>
<i>Explosive limits</i>	<i>No data available</i>

### 9.2. Other information

No additional information available

## 10. STABILITY AND REACTIVITY

- 10.1. Reactivity**  
None under normal conditions.
- 10.2. Chemical stability**  
Stable under normal conditions.
- 10.3. Possibility of hazardous reactions**  
None under normal conditions.
- 10.4. Conditions to avoid**  
No data available.
- 10.5. Incompatible materials**  
Strong oxidizers. acids. Bases.
- 10.6. Hazardous decomposition products**  
None under normal conditions.

## 11. TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects**
- |                           |                |
|---------------------------|----------------|
| Acute toxicity            | Not classified |
| Irritation                | Not classified |
| Corrosivity               | Not classified |
| Sensitisation             | Not classified |
| Repeated dose toxicity    | Not classified |
| Carcinogenicity           | Not classified |
| Mutagenicity              | Not classified |
| Toxicity for reproduction | Not classified |

## 12. ECOLOGICAL INFORMATION

- 12.1. Toxicity**  
No additional information available
- 12.2. Persistence and degradability**
- VAICO SAE 0W-40**
- |                                      |   |
|--------------------------------------|---|
| <i>Persistence and degradability</i> | <i>Not soluble in water, so only minimally biodegradable.</i> |
|--------------------------------------|---|
- 12.3. Bioaccumulative potential**  
No additional information available
- 12.4. Mobility in soil**  
No additional information available
- 12.5. Results of PBT and vPvB assessment**  
No additional information available
- 12.6. Other adverse effects**  
No additional information available

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### 13.1.1. Additional information:

Dispose in a safe manner in accordance with local/national regulations.

## 14. TRANSPORT INFORMATION

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

No dangerous good in sense of transport regulations.

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

#### 14.5.1. Other information :

No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

No additional information available

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## 15. REGULARY INFORMATION

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

#### 15.1.2. National regulations

No additional information available

#### 15.1.3. Chemical safety assessment

No additional information available



## 16. OTHER INFORMATION

## 16.1. Other information:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

## 16.2. Full text of R-, H- and EUH-phrases:

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Repr. 1B	Reproductive toxicity Category 1B
Skin Irrit. 2	skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitisation Category 1
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H360Fd	May damage fertility. Suspected of damaging 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
H413	May cause long lasting harmful effects to aquatic life
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R60	May impair fertility.
N	Dangerous for the environment
Xi	Irritant