

according to Regulation (EG) No. 1907/2006

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

1.1. Product identifier

Trade Name:

VAICO ATF II

VAICO No.:

V60-0016, V60-0058, V60-0033, V60-0032

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 – Gift-Informationszentrum Nord (Göttingen)

2. HAZARDOUS IDENTIFICATION

2.1. Classification of the substance or mixture

2.2. Label elements

2.3. Labelling according to 67/548/EEC or 1999/45/EC

2.4. Remarks for labelling

The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances.

2.5. Other hazards

2.6. Information pertaining to special dangers for human and environment

The product is not classified as hazardous/is not a hazardous preparation and therefore exempt from labelling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Mixtures

3.2. Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
50867-55-5		Methacrylat Copolymer	<3	<i>Xi Reizend</i>

3.3. Description

Highly refined mineral oil, with additives.

4. FIRST AID MEASURES

4.1. Description of first aid measures

- 4.1.1. General information
Remove contaminated soaked clothing immediately.
- 4.1.2. In case of inhalation
Remove the casualty into fresh air and keep him immobile.
In the event of symptoms refer for medical treatment.
- 4.1.3. In case of skin contact
In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.
- 4.1.4. In case of eye contact
In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
- 4.1.5. In case of ingestion
Do not induce vomiting.
Call for a doctor immediately.

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

- 4.2.1. Physician's information / possible dangers
In case of swallowing or vomiting of product there is danger of penetration into the lungs.

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

- 4.3.1. Treatment (Physician's information)
Treat symptoms.

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

- 5.1.1. Suitable extinguishing media
Foam
Dry powder
Carbon dioxide
sand
Water spray jet
water mist
- 5.1.2. Extinguishing media which must not be used for safety reasons
Full water jet

5.2. Special hazards arising from the substance or mixture

Soot and other organic products.
Nitrogen oxides (NOx)
Carbon monoxide (CO)
Sulphur dioxide (SO₂)

5.3. Advice for firefighters

- 5.3.1. Special protective equipment for fire-fighters
Use breathing apparatus with independent air supply (isolated).
- 5.3.2. Additional information
Cool endangered containers with water spray jet.

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures**
Use breathing apparatus if exposed to vapours/aerosol with filter Typ A2, A2/P2 or ABEK.
Use personal protective clothing.
- 6.2. Environmental precautions**
Do not discharge into the drains/surface waters/groundwater.
Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the subsoil/soil.
- 6.3. Methods and material for containment and cleaning up**
Take up with absorbent material (e.g. oil binder).
After taking up the material dispose according to regulation.
- 6.4. Additional Information**
no
- 6.5. Reference to other sections**

7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling**
- 7.1.1. Advice on safe handling
Avoid formation of oil dust.
- 7.2. Advice on protection against fire and explosion**
Do not smoke.
- 7.3. Conditions for safe storage, including any incompatibilities**
- 7.3.1. Requirements for storage rooms and vessels
Only use containers that are approved specifically for the substance/product.
- 7.3.2. Advice on storage compatibility
Do not store together with oxidizing agents.
- 7.3.3. Further information on storage conditions
Store under control of light and temperature conditions.
- Storage group 10
- Fire class B
- 7.4. Specific end use(s)**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

8.2. Exposure controls

- 8.2.1. Respiratory protection
Respiratory equipment in case of nebulosity or aerosol: Use a mask with a filter type A2, A2/P2 or ABEK.
- 8.2.2. Hand protection
Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 388.
- 8.2.3. Eye protection
Safety goggles with side protection. In case of increased risk add protective face shield.
- 8.2.4. Skin protection
Oil-resistant and hardly inflammable protective clothing.
- 8.2.5. General protective measures
Do not inhale vapours.
Avoid contact with eyes and skin
It is recommended to use safety clothing, safety gloves and safety goggles/safe screen.
- 8.2.6. Hygiene measures
Clean skin thoroughly after working.
Cloths contaminated with product should not be kept in trouser pockets.
At work do not eat, drink, smoke or take drugs.
Keep away from food and drink.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	liquid
Colour	red
Odour	mild

9.2. Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
Flash point		ca. 185°C		DIN ISO 2592	
Vapour pressure	<0,1 hPa	20°C			Calculated
Density	ca. 0,87 g/cm ³	15°C		DIN 51757	
Solubility in water					Insoluble
Viscosity kinematic	ca. 40 mm ² /s	40°C		DIN 51562	

9.3. Other information

The values provided may fluctuate within customary limits.

10. STABILITY AND REACTIVITY

- 10.1. Reactivity**
- 10.2. Chemical stability**
- 10.3. Possibility of hazardous reactions**
- 10.4. Conditions to avoid**
No hazardous reactions known.
- 10.5. Incompatible materials**
- 10.5.1. Materials to avoid
Reactions with strong oxidising agents.
- 10.6. Hazardous decomposition products**
Carbon monoxide and carbon dioxide.
Aldehydes
Ketonen

11. TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects**
- 11.2. Acute toxicity/Irritability/Sensitization**

	Value/Validation	Species	Method	Remark
<i>LD50 acute oral</i>	>5000 mg/kg	<i>Rat</i>		
<i>LD50 acute dermal</i>	>3000 mg/kg	<i>Rabbit</i>		
<i>Irritability skin</i>	<i>Non-irritant</i>			
<i>Irritability eye</i>	<i>Non-irritant</i>			
<i>Skin sensitization</i>	<i>Non-sensitizing</i>			
<i>Sentization respiratory system</i>	<i>Non-sensitizing</i>			

- 11.3. Experiences made from practice**
Frequent contact specially if dried out may cause skin and eye irritations.

12. ECOLOGICAL INFORMATION

- 12.1. Toxicity**
- 12.2. Persistence and degradability**

	Elimination rate	Method of analysis	Method	Validation
<i>Physico-chemical degradability</i>	<i>The product is slightly soluble in water. It can be largely eliminated form the water by abiotic proceses, e.g. mechanical separation.</i>			
<i>Biological degradability</i>				<i>Not readily degradable</i>

- 12.3. Bioaccumulative potential**
- 12.4. Mobility in soil**
- 12.5. Results of PBT and vPvB assessment**
- 12.6. Other adverse effects**
- 12.7. General regulation**
Do not allow uncontrolled leakage of product into the environment.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Waste code No.
13 02 06*

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

13.1.2. Name of waste
synthetic engine, gear and lubricating oils

13.2. Recommendations for the product

The disposal code is just a recommendation. Contact your local experts to obtain information about use or disposal of the material involved. The indication about disposal refers to the product and its residues. If the product is mixed with other materials or preparations an individual evaluation should be necessary.

13.3. Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleaning may be taken for reuse.

14. TRANSPORT INFORMATION

14.1. Land and inland navigation transport ADR/RID

No dangerous goods as defined by these transport regulations.

14.2. Marine transport IMDG

No dangerous goods as defined by these transport regulations.

14.3. Air transport ICAO/IATA-DGR

No dangerous goods as defined by these transport regulations.

14.4. Special precautions for user

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

15. REGULARY INFORMATION

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

15.2. National regulations

Water hazard class 2

Based on „Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)“ from 27 Juli 2005

15.3. Technical instruction air remarks

5.2.5. Organic substances

Accident regulation, appendix Decree for case of interference/ I: not specified.

15.4. Chemical Safety Assessment

16. OTHER INFORMATION

16.1. Further information

Above information corresponds to our present knowledge and experience. It is not a guarantee that no errors or incomplete data may be contained.

16.2. Sources of key data used

DGMK report 400-1 , 400-2 , 400-7 Concawe-Report „ Health aspects of lubricants „ 1/1983

16.3. Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 36 Irritating to eyes.