

according to Regulation (EG) No. 1907/2006

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

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

VAICO DPF & EGR Flush

VAICO No:
V60-1013

1.2. Details of the supplier of the safety data sheet

1.2.1. Manufacturer/Supplier:

VIEROL AG | Karlstraße 19 | 26123 Oldenburg | Germany
Telefon +49 441 - 210 20-0 | Telefax +49 441 - 210 20-111

1.2.2. Responsible 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:

Gift-Informationszentrum Nord (Göttingen)
Telefon +49 (0)551/ 19240

2. HAZARD'S IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008
STOT RE category 1 H372
Aspiration hazard category 1 - H304
Chronic aquatic toxicity category 3 - H412
You will find the full text of the warnings listed in this section under section 16.

Human health: see section 11 for toxicological information.
Physical and chemical hazards: see section 9 for physico-chemical information.
Possible effects on the environment: see section 12 for details on the ecology.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008
The fabric is classified in accordance with the CLP regulation and labelled.

Hazard pictograms

GHS08

Signal Word
Danger



Hazard Information

H304 May be fatal if swallowed and enters airways.
H372 Causes damage to organs through prolonged or repeated exposure
H412 Harmful to aquatic life with long lasting effects

Safety Instructions

according to Regulation (EG) No. 1907/2006

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P273 Avoid release into the environment.
P264. Wash thoroughly after handling.
P301 + P310 If swallowed: immediately call a Poison Center or doctor/physician.
P405 Store locked up.
P501 Dispose of contents / container in accordance with the local / regional / national / international Regulations.
Additional information: EUH066 Repeated exposure may cause skin dryness or cracking.

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Hazard components which must be listed on the label

Hydrocarbon mixture, n-alkanes, C10-C13 and iso-alkanes, FEMA, 2-25% aromatics

2.3. Other hazards

Results of the PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Preparation

Preparation of aliphatic hydrocarbons and additives

Hazardous ingredients quantity %

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics 2-25% 50-100

Specific target organ systemic toxicity (repeated exposure), 1, H372

Aspiration hazard, 1, H304

Water hazard: Chronic, 3, H412

EUH066

Trimethyl benzene 1,2,4 < 0.25

Flammable liquids, 3, H226

Acute toxicity inhalative, 4, H332

Corrosion / irritation on the skin, 2, H315

Serious eye damage /-irritation, 2, H319

Specific target organ systemic toxicity (single exposure):

Breath way irritation, 3, H335

Water hazard: Chronic, 2, H411

Butyl glycol 2-5

Acute toxicity-dermal, 4, H312

Acute toxicity inhalative, 4, H332

Acute toxicity oral, 4, H302

Corrosion / irritation on the skin, 2, H315

Serious eye damage /-irritation, 2, H319

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Oil heavy aromatic 1-2

Specific target organ systemic toxicity (single exposure):

Numbing effect, 3, H336

Aspiration hazard, 1, H304

Water hazard: Chronic, 2, H411

Hydrocarbons, C11-C14 1

Aspiration hazard, 1, H304

Mesitylene < 0.25

Flammable liquids, 3, H226

Specific target organ systemic toxicity (single exposure):

Breathe way irritation, 3, H335

Water hazard: Chronic, 2, H411

Naphthalene 0.25 0.5

Acute toxicity oral, 4, H302

Carcinogenicity, 2, H351

Water hazard: Acute, 1, H400

Water hazard: Chronic, 1, H410

Notes: benzene content < 0.1%.

See section 16 for the full text of the warnings listed in this section.

4. FIRST AID MEASURES

4.1. Description of the first aid measures

Notes:

Bring affected out of the danger area and lie down.

Irregular breathing or respiratory arrest artificial respiration.

Do not leave unattended patients. Storage and transport stably in side position.

After inhalation:

Fresh air intake, if necessary, breathing, warmth. Consult a doctor if symptoms persist. Unconscious storage and transport stably in side position.

After skin contact:

Remove contaminated clothing and wash affected skin with SOAP and water

After eye contact:

Eyes slit open lid for several minutes under running water rinse. Consult a doctor if symptoms persist. • in case of ingestion:

Not induce vomiting, immediately move to doctor help.

4.2. Most important acute and delayed symptoms and effects

No other relevant information available.

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

No other relevant information available.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Foam, CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.

In for safety reasons unsuitable extinguishing agents: Water with full Jet.

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5.2. Special hazards of the substance or mixture

Carbon monoxide (CO)

5.3. Instructions for fire-fighters

Special protective equipment: Breathing apparatus set.

More information

Cool endangered containers with water spray jet.

Contaminated firefighting water collected separately, must not enter the sewer system.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and procedures to be applied in case of emergency

Bring people to safety. Wear protective equipment. Keep unprotected persons. Ensure for sufficient ventilation. Keep ignition sources, avoid Sparks, do not smoke.

Protective equipment Check with the manufacturer of protective equipment that the chosen protection is sufficient.

6.2. Environmental precautions

Allow to not enter into drains/surface waters/groundwater. If intrusion into waters or drains inform competent authorities.

6.3. Methods and materials for containment and cleaning

Absorb with liquid-binding material (sand, diatomaceous earth, acid Binder, universal binder). According to section 13, disposal of contaminated material as waste.

Ensure sufficient ventilation. Dispose of the recorded material.

6.4. Reference other sections

Information for safe handling, see section 7.

Information on personal protective equipment, see section 8.

Disposal information, see section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Avoid formation of aerosol.

Information about fire - and explosion protection: Keep ignition sources away - do not smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirement for storage rooms and vessels:

The water resources Act with regard to the storage of water endangering substances must be observed. Observe the regulations for the storage of flammable liquids.

Indication for combined storage: Separated from food and pleasure and feed store.

Further information about storage conditions: Protect from heat and direct sunlight.

7.3. Specific end uses

No other relevant information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Parameters to be monitored

Ingredient: 64742-82-1 hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (100%)

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Other occupational exposure limit values

AGW: 300 mg / m³, 300 mg / m³ (RCP-method - long term value)

Hydrocarbon mixtures, used as a solvent (solvent hydrocarbons),

Additional information: As a basis the lists valid during the creation were used.

8.2. Limitation and exposure controls • Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at end of work.

Respiratory protection

For short-term or low pollution use respiratory filter device. Intense or prolonged exposure apparatus using convection.

Hand protection

The glove material must be impermeable and resistant to the product / the substance / the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation.

Material of gloves

Fluorine rubber (Viton)

Nitrile rubber

The selection of the suitable gloves does not only depend on the material, but also other quality characteristics (E.g. layer thickness) is dependent and varies from manufacturer to manufacturer. • Penetration time of glove material

The exact time of the breakthrough is to find out the manufacturer of the protective gloves and adhere to. Nitrile rubber or flour elastomers (Viton)

Glove thickness: 0.40 mm

Penetration time: > 480 minutes

Eye protection

When decanting goggles recommended

Body protection

Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information about the fundamental physical and chemical properties

Form: liquid

Color: colorless, slightly yellowish

Odor: characteristic

Melting point/melting range: <-15 ° C

Boiling point/boiling range: 180-220 ° C

Flash point: > 63 ° C

Ignition temperature: > 200 ° C

Auto-flammability: The product is not self-igniting

Risk of explosion: The product is not explosive, but the education is an explosive, vapor / air mixtures possible

Explosion limits: lower: 0.6 vol. % upper: 6.1 vol. %

Vapor pressure (20 ° C): approx. 1 hPa

Density (20 ° C): 0,795 0.81 kg / l

Solubility in / miscibility with water: 0.04 g/l

Viscosity, kinematic at 20 ° C: 1.64 mm²/s physical and chemical properties

9.2. Other information

No further information available

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10. STABILITY AND REACTIVITY

- 10.1. Reactivity**
No decomposition if proper storage and application.
- 10.2. Chemical stability**
Thermal decomposition / conditions to be avoided: No decomposition if used as prescribed
- 10.3. Possibility of hazardous reactions**
No dangerous reactions known
- 10.4. Conditions to avoid**
No other relevant information available.
- 10.5. Incompatible materials**
Strong oxidizing agents
- 10.6. Hazardous decomposition products**
No dangerous decomposition products known.

11. TOXICOLOGICAL INFORM

- 11.1. Information on the toxicological effects**
- Acute toxicity**
Components, can contribute to the acute oral toxicity.
Butyl glycol (5.0%), LD 50 (oral): ATE 500 mg / kg
Naphthalene (0.35%), LD 50 (oral): ATE 500 mg / kg
Calculated estimated acute oral toxicity ATE (mix): 9345 mg / kg
- Components, can contribute to the acute dermal toxicity.**
Butyl glycol (5.0%), LD 50 (dermal): ATE 1100 mg / kg
Calculated estimate acute dermal toxicity ATE (mix): 22000 mg / kg
- Components, can contribute to the acute inhalation toxicity.**
Trimethyl benzene 1,2,4 (0.125%), LC50 (inhalative): ATE 11 mg/l/4 h
Butyl glycol (5.0%), LC50 (inhalative): ATE 11 mg/l/4 h
Calculated estimate acute inhalation toxicity ATE (mix): 220 mg/l/4 h
- Corrosion / irritation on the skin**
Relevant ingredients:
Trimethyl benzene 1,2,4 (0.125%) not additive, classification of the substance: category 2
SCL: Category 2:10 % (General limit)
Butyl glycol (5.0%) additive, classification of the substance: category 2
Category 2: 10% (General limit)
- Serious eye damage/eye irritation**
Relevant ingredients:
Trimethyl benzene 1,2,4 (0.125%) not additive, classification of the substance: category 2
SCL: Category 2:10 % (General limit)
Butyl glycol (5.0%) additive, classification of the substance: category 2
Category 2: 10% (General limit)

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Carcinogenicity

Relevant ingredients:

Naphthalene (0.35%), classification of the substance: category 2

SCL: Category 2: 1% (General limit)

The mixture is not classified in this risk category.

Specific target organ systemic toxicity (single exposure): irritation of respiratory path

Relevant ingredients:

Trimethyl benzene 1,2,4 (0.125%), classification of the substance: category 3

SCL: Category 3:20 % (General limit)

Mesitylene (0.125%), classification of the substance: category 3

Category 3: 25%

The mixture is not classified in this risk category.

Specific target organ systemic toxicity (single exposure): numbing effect

Relevant ingredients:

Petroleum heavy aromatic (1.75%), classification of the substance: category 3

SCL: Category 3:20 % (General limit)

The mixture is not classified in this risk category.

Skin sensitization

Relevant ingredients:

Test petrol 180 / 210 hydrocarbons, C10-C13, na-alkanes, isoalkanes, cyclics, aromatics (2-25%) (90-100%), classification of the substance: category 1

Category 1: 10% (General limit) category 2:10 % (General limit)

Result: The mixture is classified in category 1.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Components that can contribute to the acute danger to water.

Naphthalene (0.25 0.5%), M factor:

The mixture is not classified in this risk category.

Components that can contribute to chronic water exposure.

Trimethyl benzene 1,2,4 (< 1%), category 2

Oil heavy aromatic (1-2%), category 2

Mesitylene (< 0,25%), category 2

Naphthalene (< 1%), category 1, M-factor:

(90-100%), 180/210 test fuel hydrocarbons, C10-C13, na-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Category 3

Result: The mixture is classified in category 3.

12.2. Persistence and degradability

No other relevant information available.

12.3. Bio accumulative potential

Bio-accumulation possible.

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12.4. Mobility in soil

No other relevant information available.

Further ecological information:

General notes:

Water hazard class 2 (self-assessment): hazardous to water not in the groundwater, water or drains allow.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

Other ecological information

Get result in surface water or sewers.

Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1. Procedures for waste management

Product:

Recommendation

Must be disposed of together with household waste. Do not empty into drains. The choice of the disposal procedure depends on the composition of the product at the time of disposal and the local disposal possibilities.

Waste key number:

For this product no waste code number according to European waste catalogue (EWC) can be set, since only the intended use by the consumer enables a mapping.

The waste key number is in consultation with the waste disposal / manufacturer / authority to set.

Uncleaned packaging:

Recommendation:

Disposal according to the regulations

14. TRANSPORT INFORMATION

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard classes

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

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

Not applicable.

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15. REGULATORY INFORMATION

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

National regulations Germany:

Technical instructions on air:

| | |
|-------|------------|
| Class | Share in % |
| III | 100.0 |

WGK (DE) WGK identification number 27; WGK: 2; hazardous to water;

Accident regulation 13 is not the must.

15.2. Chemical safety assessment

A chemical safety assessment was not conducted.

16. OTHER INFORMATION

Full text of warnings in section 2 and 3.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters Airways.

H312 Harmful in contact with skin

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful by inhalation.

H335 May cause respiratory irritation.

H336 Can cause drowsiness and dizziness.

H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>

H372 Causes damage to the organs from prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic organisms with long-term effect.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of warnings in section 2 and 3.

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H335 May cause respiratory irritation.

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H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>

H372 Causes damage to the organs from prolonged or repeated exposure.

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EUH066 Repeated exposure may cause skin dryness or cracking.

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More information.

The information contained in this safety data sheet based on the State of our knowledge at the time of the revision, and serve to describe our products in terms of safety precautions to be taken. You represent any warranty of any properties of the described product and any product information or product specification and shall establish a contractual relationship. The information contained in the safety data sheet are not transferable to other products. As far as in this safety data sheet called product with other materials is blended, mixed or processed, or undergoes a process, the information in this safety data sheet, unless it expressly otherwise stated, not on the new material can be transferred.