

SECTION 1

SUBSTANCE/MIXTURE IDENTIFIER AND THE COMPANY

1.1 Product Identifier

Trade name: Additiv, Ruß-/Partikelfilterregeneration

DPF Diesel Additive, suitable for vehicles from March 2000.

Product number: V22-1255, V22-1247, V22-1253, V42-1108, V22-1254, V22-1250, V22-1248, V42-1107, V20-4935, V22-1251, V22-1249, V22-1252, V22-1246

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

Uses of the substance:

Fuels and fuels additives

Uses advised against:

Every use which is not specified in this entry or section 7.3

1.3 Supplier details

VIEROL AG
Karlstraße 19
26123 Oldenburg - Germany
Tel.: +49 441 210 20-0
info@vierol.de

1.4 Emergency telephone number

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

112: European emergency number, available throughout the European Union for emergencies and for medical first aid to persons.

SECTION 2

RISK IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1 Classification of the mixture according to Regulation (EC) No. 1272/2008 (CLP/GHS)

2.2. Label elements

Signal Word: Danger

GHS pictograms: GHS08, GHS07, GHS09



Hazard indication:

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Prudence tips:

P210 Keep away from heat sources, sparks, open flame or hot surfaces. - No Smoking.

P260 Do not breathe gas / vapors.

P280 Wear gloves/clothing/glasses/protective mask.

P301 + P310 + P331 IF SWALLOWED: Immediately call a TOXICOLOGICAL INFORMATION CENTER or a doctor. DO NOT induce vomiting.

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P303 + P361 + P353 IF IN SKIN (or hair): Remove contaminated clothing immediately. Clear your skin with water or shower.

P304 + 340 IF INHALED: Transport victim to fresh air and keep at rest in a position comfortable for breathing.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents / container in accordance with local/regional/national/international regulations.

Labeling hazard determining components: Product contains hydrocarbons, C9 - C12 n-alkanes, isoalkanes, cyclic, aromatic (2-25%) of EC 919-446-0, CAS 108-88-3 toluene

2.3. Other dangers

Repeated exposure may cause dryness or cracking of the skin.

SECTION 3

INGREDIENTS COMPOSITION/INFORMATION

Substance

Substances	CAS number	EC number	DSD	CLP	w / w %
Hydrocarbons, C9-C12, nalkanes, isoalkanes, cyclics, aromatics (2-25%)	-	919-446-0	R10 harmful; Xn; R48/20-65 R66-67 dangerous for the environment; N; R51-53	H226 Asp. Tox. 1; H304, STOT SE 3; H336 Aquatic Chronic 2; H411	50 - < 75
Proprietary Catalyst (Pt, Ce, Fe metallic compounds)	-	265-198-5	-	-	10 - < 25
Toluene	108-88-3	203-625-9	F;R11 harmful; Xn;R48/20-65 irritant; Xi; R38 toxic for reproduction; Repr. Cat. 3; R63 R67	H225 Skin Irrit. 2 / H315 Repr. 2 / H361d STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 /	5 - < 10

SECTION 4

FIRST AID ACTION

4.1 First Aid measures description

General advice

Show this safety data sheet to the doctor

Inhalation

- If breathed in, move person into fresh air.
- If symptoms persist, call a physician.

In case of skin contact

- Take off immediately contaminated clothing and shoes immediately.
- Wash immediately and thoroughly for a prolonged period (at least 20 minutes).
- Wash off with soap and plenty of water.
- Call a physician if irritation develops or persists

In case of eye contact

- Rinse immediately and abundantly with water, also under the eyelids, for at least 20 minutes.
- If eye irritation persists, consult a physician.

In case of ingestion/suction

- Do NOT induce vomiting.
- Rinse mouth with plenty of water.
- Risk of product entering the lungs on vomiting after ingestion.
- Lay victim on side.
- Urgent medical attention is needed

4.2 Most important symptoms and effects, both acute and delayed

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

Not relevant information

SECTION 5

FIREFIGHTING MEASURES

5.1 Fire control measures:

Not flammable product under normal storage and handling conditions.

Appropriate fire control measures

- Foam
- Powder
- Carbon dioxide(CO2)

Inappropriate fire control measures

- Water jet

5.2 Specific hazards arising from the substance /mixture

Specific hazards during firefighting

- Thermal combustion or decompression could result in highly toxic reaction by products and can, therefore, present a high health risk for health.
- The container could explode if is in contact with a heating source

5.3 Recommendations and equipment for fire fighting personnel

- Gloves
- Goggles
- Boots
- Full protective suit against chemical components
- Self-contained breathing apparatus (EN 133)

Specific extinction methods

Use sprayed water to cool completely closed containers

SECTION 6

MEASURES AGAINST ACCIDENTAL DISCHARGE

6.1 Personal precaution, protective equipment and emergency procedure.

- Isolate the escapes
- Avoid skin and eyes contact
- Ventilate the area
- Do not breathe vapor
- Special protective equipment
- Self-contained breathing apparatus (EN 133)
- Safety goggles
- Boots
- Protective suit against chemicals
- Waterproof gloves
- Keep away from flames and hot surfaces

6.2 Environmental precautions:

Avoid at all costs that the product is dumped into the sewage system

6.3 Methods and materials for containment and clean up

Recovery

- Soak up with sand or inert absorbent material.
- Pump up the product into a hermetically sealable container
- Keep in an appropriate and hermetic container and closed for its disposal.

Decontamination/cleaning

Wash off with plenty of water

6.4 Reference to other sections

See epigraphs 8 and 13.

SECTION 7

HANDLING AND STORAGE

7.1 Precautions for safe handling

General precautions

- Comply with existing legislation on prevention of occupational hazards.
- Keep containers hermetically closed.
- Control spills and residues, eliminating them with safe methods (section 6)
- Avoid the free discharge from the container.
- Maintain order and cleanliness where dangerous products are handled.

Technical recommendations for fire and explosion prevention

- Not flammable product under normal conditions of storage, handling and use.
- It is recommended a slow transfer to avoid the generation of electrostatic charges that could affect flammable products.
- Check section 10 about conditions and matters that should be avoided.

7.2 Conditions for a correct storage and incompatibilities

Technical measures / Storage conditions

A – Technical storage measures

ITC (R.D.379/2001) MIE-APQ 7

Classification: Xn

Minimum temperature 5 ° C

Maximum temperature 30 ° C

Time limit: 6 months

- Keep in a cool and well-ventilated place
- Avoid open flames, hot surfaces and sources of ignition
- Avoid from incompatible materials (it should be indicated by the manufacturer)
- Keep away from: acids, alkalis and caustic products

Inappropriate material

Rubber

7.3 Specific(s) end uses(s)

Unavailable information

SECTION 8

EXPOSURES CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

There are not environmental limit values for the substances that constitute the product

8.2 Exhibition controls

A-Working environment

It is recommended, as a prevention measure, the use of basic personal protective equipment, with the corresponding mark of “CE” according to R.D 1407/1992 and subsequent amendments.

B-Respiratory protection

- Use a filtering respirator if a risk assessment indicates that is necessary
- Respirator with filter for organic vapor

C-Hands protection

- Wear non-disposable and chemical protective gloves.
- The gloves should satisfy the specifications of EUR Directive 89/686/EEC and the standard EN374
- Observe permeability and breakthrough time that is provided by the glove's supplier, as well as the danger of cuts and erosion.
- Inspect the gloves prior use
- Discard if there is any degradation of the gloves.

D-Skin and body protection

- Body protection will differ accordingly to the amount and concentration of the substance at work place.
- Remove and wash contaminated clothing.
- Use long sleeved clothing

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

Such information is only given as guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other

materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Property	Value
Ph 20°C and 101.3kPa	Appearance: Physical State: Líquid Color: dark amber Smell: characteristic
pH	No determinated
Melting point / freezing point	No determinated
Initial boiling point and boiling range	110.6 ° C a 1.013 hPa
Flashpoint	No inflamamable (<60-64°C)
Evaporation rate	No determinated
Flammability (solid, gas)	It is not relevant (liquid)
Upper / lower flammability or explosive limits	Lower explosive limits: 0.6% Upper explosion limits: 7.1 vol%
Vapor pressure	0.448 PSI a 70 °F
Relative density	0.83 g/cm ³ .
Solubilities	No determinated
Partition coefficient n-octanol / water	No data available
Autoignition temperature	>200 °C
Decomposition temperature	No data available
Viscosity	Kinematics (room temperature): 0.34 cm ² / s (34 cSt) Kinematic (40 ° C (104 ° F)): 0.17 cm ² / s (17 cSt)
Particle size	The substance / product is handled or used in a non-solid or granular form.
Explosive properties	N/A
Oxidizing properties	N/A

SECTION 10

STABILITY AND REACTIVITY

10.1 Reactivity

Dangerous reactions are not expected if the technical instructions for storing chemical products are complied with.

See Section 7.

10.2 Chemical Stability

Stable at room temperature

10.3 Possibility of hazardous reactions

Under normal storage conditions, no dangerous reactions are expected

10.4 Conditions to avoid

Applicable for handling and storage at room temperature

10.5 Incompatible materials

- Strong acids and bases
- Strong oxidizing agents
- Mineral acids

10.6 Dangerous decomposition products

Carbon oxides

SECTION 11

TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

The ingestion of a considerable dose could cause throat irritation, abdominal pain, nausea and vomiting.

Acute inhalation toxicity

The product has a low toxicity in high concentrations; it can cause depression of the central nervous system, causing headache, dizziness, nausea, vomiting and confusion, and in case of serious condition, loss of conscience.

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Acute dermal toxicity

Not classified as hazardous for acute dermal toxicity according to GHS.

Acute toxicity (other routes of information)

Unavailable information

Skin contact

It can be harmful if the product is absorbed by the skin. See section 2.

Eye irritation and damage

It doesn't present any dangerous substances for eyes. For further information see section 3.

Respiratory or skin sensitization

It does not contain substances hazardous to the skin, above the limits set out in point 3.2

Mutagenicity

- Genotoxicity in vitro: It is not considered to be genotoxic
- Genotoxicity in vivo: not relevant information

Carcinogenicity

Not relevant information

- Toxicity to reproduction/fertility: the product is not considered to affect fertility.
- Developmental Toxicity/Teratogenicity: this product is not considered to be toxic for development. The product is not deemed to be teratogenic.

STOT

- STOT – single exposure: is not classified as organ toxicant for a single exposure according to GHS criteria.
- STOT – repeated exposures: is not classified as specific target organ toxicant, repeated exposure according to GHS criteria.

Aspiration toxicity

No aspiration toxicity classification exists.

SECTION 12**ECOLOGICAL INFORMATION****Toxic for water organisms****12.1 Toxicity**

Aquatic toxicity (acute) of mixture components

Substance name	Endpoint	Value	Species	Exposition time
Hydrocarbons, C9 - C12 n-alkanes, isoalkanes, cyclic, aromatic (2-25%)	ErC50	0.94 mg/l	algae	72 hours
	EC50	0.53 mg/l	algae	72 hours
	EL50	22 mg/l	daphnia magna	48 hours
	EL50	10 mg/l	algae	72 hours
	EL50	43.98 mg/l	microorganisms	48 hours
	LL50	30 mg/l	fish	96 hours
Toluene	LC50	5.5 mg/l	fish	96 hours

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment

Substance Name	Endpoint	Value	Species	Exposition time
Toluene	LC50	3.78 mg/l	aquatic invertebrates	2 d
	EC50	3.23 mg/l	aquatic invertebrates	7 d

12.2 Degradability process

The tests of this parameter are not applicable to UVCB substances.

12.3 Bioaccumulative potential

Bio-accumulative potential of the components of the mixture

Substance Name	Log KOW	BCF
Toluene	2.73	90

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Hydrocarbon substances do not meet the criteria of persistence, bioaccumulation and toxicity and, therefore, the product is not considered as PBT or VPVB

12.6 Other adverse effects

No data available.

SECTION 13

RELATIVE CONSIDERATIONS TO ELIMINATION

13.1 Waste treatment methods

Product disposal

Must be incinerated in a suitable incineration plant and always holding a permit delivered by the competent authorities.

Advice on cleaning and disposal of packaging

- Carefully drain and then steam clean
- It may be reused after decontamination
- Dispose of in accordance to local regulations

SECTION 14

TRANSPORT INFORMATION

ADR: not regulated

RID: not regulated

IMDG: not regulated

IATA: not regulated

ADN/ADNR: not regulated

*Note: Regulations for hazardous material's transport could vary, so it would be advisable to check the current rules in the countries at all times.

SECTION 15

REGULATORY INFORMATION

15.1 Security, health and environment regulation/legislation for the substance or mixture

There is no specific regulatory information.

15.2 Chemical safety assessment

It does not exist

SECTION 16

OTHER INFORMATION

16.1 Full text of H-statements mentioned in sections 2 and 3

- H304: may be mortal in case of ingestion or penetration airways
- H315: causes skin irritation
- H319: causes serious eye irritation
- H332: harmful if inhaled
- H335: respiratory irritation can be identified

16.2 Other relevant information

Mixture in regulation format: N1272/2008 CLP