



**Engine Flush**

Print date: 31.08.2010

Product code: 248

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**1. Identification of the substance/preparation and of the company/undertaking**

**Identification of the substance or preparation**

Engine Flush

**Use of the substance/preparation**

Cleaning agent for Engines

**Company/undertaking identification**

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**Further Information**

Article Number: 3001, 1001, 1002, 1005, 1007, 1008, 1009

**2. Hazards identification**

**Classification**

Indications of danger : Harmful  
R-phrases:  
Harmful: may cause lung damage if swallowed.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**3. Composition/information on ingredients**

**Chemical characterization ( Mixture )**

Anti Friction Components  
Detergents, Dispersants  
Synthetic agent combinations  
corrosion preventing agent  
Solvent mixture  
Additives  
Sum of ingredients:  
30 - 58 %

**Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
265-149-8	64742-47-8	Distillates (petroleum, gasoline), hydrotreated light	> 20 %	Xn R65
265-194-3	64742-91-2	Distillates (petroleum, gasoline), steam-cracked	< 25 %	Xn R65
265-191-7	64742-88-7	Solvent naphtha (petroleum, gasoline), medium aliph., Straight run petroleum (gasoline)	< 18 %	Xn R65
265-099-7	64741-98-6	Extracts (petroleum, gasoline), heavy naphtha solvent	< 12 %	Xn R65
270-729-9	68477-40-7	Distillates (petroleum, gasoline), cracked stripped steam-cracked petroleum (gasoline) distillates, C10-12 fraction	< 10 %	Xn R65
272-028-3	68649-42-3	Alcyl dithio phosphate	< 10 %	Xi, N R38-41-51-53

Full text of each relevant R phrase can be found in heading 16.



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### 4. First aid measures

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes .  
Subsequently wash again with: Water and soap.  
Seek medical attention if problems persist.

#### After contact with eyes

Remove contact lenses.  
Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. After ingestion of absorption substances: Consult physician.

#### After ingestion

Let water be swallowed in little sips (dilution effect). Consult physician.  
Do not induce vomiting.

#### Advice to doctor

Warning about danger of aspiration.

### 5. Fire-fighting measures

#### Suitable extinguishing media

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

#### Extinguishing media which must not be used for safety reasons

High power water jet.

#### Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Formation of decomposition products possible.  
In case of fire and/or explosion do not breathe fumes.

#### Special protective equipment for fire-fighters

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

#### Additional information

Cool endangered container in case of fire.  
Beat down gas/vapours/mist with water spray.  
Contaminated fire-fighting water must be collected separately.

### 6. Accidental release measures

#### Personal precautions

Wear a self-contained breathing apparatus and chemical resistant suit.  
Keep away from sources of ignition. No smoking.  
Do not breathe gas/fumes/vapour/spray.

#### Environmental precautions

Beat down gas/vapours/mist with water spray.  
Do not empty into drains or the aquatic environment.  
In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

#### Methods for cleaning up/taking up



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Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

### 7. Handling and storage

#### Handling

##### **Advice on safe handling**

Material must only be handled in closed installations or systems. Vapours / aerosols must be extracted by suction immediately at point of origin.  
Avoid contact with skin and eyes.

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

Keep away from sources of ignition. No smoking.  
Take precautionary measures against static discharges.

#### Storage

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

Keep container tightly closed in a cool, well-ventilated place.  
Do not store at temperatures over: 50 °C  
Take precautionary measures against static discharges.

### 8. Exposure controls/personal protection

#### Exposure limit values

#### Exposure controls

##### **Protective and hygiene measures**

Take off immediately all contaminated clothing  
Do not breathe gas/fumes/vapour/spray.  
Avoid contact with skin and eyes.  
Keep away from food, drink and animal feeding stuffs.  
When using do not eat, drink or smoke.  
"Wash hands when done working with material; at breaks, lunch, shift changes, etc."

##### **Respiratory protection**

Provide for good ventilation, when develop aerosols/mist.  
In case of fire: Wear self-contained breathing apparatus.

##### **Hand protection**

Tested protective gloves are to be worn: NBR (Nitrile rubber). FKM (Fluoroelastomer (Viton)). (EN374)

##### **Eye protection**

Wear tightly sealed safety glasses against possible splashes into the eyes. (EN 166)

##### **Skin protection**

Wear suitable solvent-proof protective clothing according to EN 465.

### 9. Physical and chemical properties

#### General information

Physical state : liquid  
Colour : green  
Odour : aromatic

#### Important health, safety and environmental information

Test method

##### **Changes in the physical state**

Boiling point : 180 - 220 °C  
Flash point : 65 °C



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Vapour pressure : 20 hPa  
(at 20 °C)  
Density (at 20 °C) : 0,790 - 0,820 g/cm<sup>3</sup>  
Water solubility : insoluble  
(at 20 °C)  
Solubility in other solvents : Organic solvents

### Other information

Ignition temperature : > 200 °C

## 10. Stability and reactivity

### Conditions to avoid

Only use material in places where open light, fire and other sources of ignition can be kept away.  
No decomposition when used as intended.

### Materials to avoid

Oxidizing agents. acid, concentrated. Alkalis (alkalis), concentrated.

### Hazardous decomposition products

No hazardous decomposition products are known.

## 11. Toxicological information

### Acute toxicity

observations relevant to classification: (LD50-values):

LD50(Dosis) 4,8 g/Kg

### Corrosive and irritant effects

After skin contact: Frequently or prolonged contact with skin may cause dermal irritation.

Irritation of eyes: Irritant effect possible.

### Sensitising effects

no danger of sensitization.

## 12. Ecological information

### Ecotoxicity

Distillates(petroleum, gasoline)

Fish, LC50, 10-100 mg/l

Algae, IC50, 10-100 mg/l

### Persistence and degradability

Product is partially biodegradable.

### Bioaccumulative potential

Low potential of bio-accumulation.

### Further information

Do not empty into drains or the aquatic environment.

## 13. Disposal considerations

### Advice on disposal

Do not dispose with household waste.

Do not empty into drains or the aquatic environment.

Arrange about the exact waste code with the local waste disposal expert.

Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

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**Contaminated packaging**

Container must be completely emptied.  
Do not pierce, cut up or weld unclean container. (Explosion hazard.)

**14. Transport information**

**Land transport (ADR/RID)**

**Other applicable information (land transport)**

Not a hazardous material with respect to transportation regulations.

**Inland waterways transport**

**Other applicable information (inland waterways transport)**

Not a hazardous material with respect to transportation regulations.

**Marine transport**

**Other applicable information (marine transport)**

Not a hazardous material with respect to transportation regulations.

**Air transport**

**Other applicable information (air transport)**

Not a hazardous material with respect to transportation regulations.

**15. Regulatory information**

**Labelling**

Danger symbols : Xn - Harmful



Xn - Harmful

**Hazardous components which must be listed on the label**

Distillates (petroleum, gasoline), hydrotreated light

**R phrases**

65 Harmful: may cause lung damage if swallowed.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

02 Keep out of the reach of children.  
46 If swallowed, seek medical advice immediately and show this container or label.

**EU regulatory information**

**Additional information**

Contains:  
> 30 % hydrocarbons, aliphatic.  
< 5 % phosphates

**National regulatory information**

Water contaminating class (D) : 2 - water contaminating

**16. Other information**

**Full text of R-phrases referred to under sections 2 and 3**

38 Irritating to skin.  
41 Risk of serious damage to eyes.  
51 Toxic to aquatic organisms.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



# **Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

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- 53 May cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.

### **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*