

**SAFETY DATA SHEET**  
VOLTRONIC ENGINE FLUSH E20

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**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**Product name:** VOLTRONIC ENGINE FLUSH E20

**Product code:** E 20

**Synonyms:** ÖLSYSTEM REINIGER  
MOTORINNENREINIGER

**Use of substance / preparation:** Oiladditiv Cleaner liquid

**Company name:** VOLTRONIC & ACT GmbH

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**2. HAZARDS IDENTIFICATION**

**Main hazards:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Repeated exposure may cause skin dryness or cracking.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

- Hazardous ingredients:** HYDROCARBONS, DEAROMAT. 30-50%  
EINECS: 265-149-8 CAS: 64742-47-8  
[Xn] R65; [-] R66
- CUMENE [1] PROPYLBENZENE [2] <1%  
EINECS: 203-132-9 CAS: 103-65-1  
[-] R10; [Xi] R37; [N] R51/53; [Xn] R65
  - NAPHTHALENE <1%  
EINECS: 202-049-5 CAS: 91-20-3  
[Xn] R22; [Xn] R40; [N] R50/53
  - 1,2,4-TRIMETHYLBENZENE <1%  
EINECS: 202-436-9 CAS: 95-63-6  
[-] R10; [Xn] R20; [Xi] R36/37/38; [N] R51/53
  - POLYOLEFIN ALKYLPHENOL ALKYL AMIN 1-10%  
[Xi] R36/38
  - CALCIUM ARYLSULFONAT, LANGKETTIG ALKYL SUBST. 1-10%  
[Xi] R38
  - ALKYLIERTE PHENOLE <1%  
[N] R50/53

[cont...]

**4. FIRST AID MEASURES (SYMPTOMS)**

**Skin contact:** There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** May cause dizziness.

**Inhalation:** Drowsiness or mental confusion may occur. There may be vomiting.

**4. FIRST AID MEASURES (ACTION)**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** Do not induce vomiting. Transfer to hospital as soon as possible.

**Inhalation:** If unconscious and breathing is OK, place in the recovery position. Remove casualty from exposure ensuring one's own safety whilst doing so.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Vapour may travel considerable distance to source of ignition and flash back.

**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition. If outside keep bystanders upwind and away from danger point.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:** Mix with sand or vermiculite. Do not use equipment in clean-up procedure which may produce sparks.

**7. HANDLING AND STORAGE**

**Handling requirements:** Ensure there is sufficient ventilation of the area. Smoking is forbidden. Avoid direct contact with the substance.

**Storage conditions:** Store in cool, well ventilated area. Keep away from direct sunlight. The floor of the storage room must be impermeable to prevent the escape of liquids. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Hazardous ingredients:** HYDROCARBONS, DEAROMAT.
- WEL (8 hr exposure limit): 1000mg/m<sup>3</sup>, (200ppm)
- NAPHTHALENE
- WEL (8 hr exposure limit): 50 mg/m<sup>3</sup>

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- 1,2,4-TRIMETHYLBENZENE

WEL (8 hr exposure limit): 100 mg/m<sup>3</sup> WEL (15 min exposure limit): 200 mg/m<sup>3</sup>

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition. Ensure storage room has retention walls. The floor of the storage room must be impermeable to prevent the escape of liquids.

**Respiratory protection:** Respiratory protective device with particle filter. Gas/vapour filter, type A: organic vapours (EN141).

**Hand protection:** Gloves (oil-resistant). Gloves (solvent-resistant). Breakthrough time of the glove material > 4 hours.

**Eye protection:** Safety goggles.

**Skin protection:** Protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Brown

**Odour:** Characteristic odour

**Evaporation rate:** Moderate

**Solubility in water:** Slightly soluble

**Also soluble in:** Most organic solvents.

**Viscosity:** Non-viscous

**Viscosity value:** 8

**Viscosity test method:** Kinematic viscosity in 10<sup>-6</sup> m<sup>2</sup>/s at 40°C (ISO 3104/3105)

**Boiling point/range°C:** 185

**Flash point°C:** 88

**Autoflammability°C:** 230

**Vapour pressure:** 5

**Relative density:** 0,85

**VOC g/l:** 501

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat. Flames. Sources of ignition.

**Materials to avoid:** Strong oxidising agents.

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

**11. TOXICOLOGICAL INFORMATION**

**Hazardous ingredients:** HYDROCARBONS, DEAROMAT.

ORL RAT LD50 >2000 mg/kg

SKN RBT LD50 >2000 mg/kg

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- CUMENE [1] PROPYL BENZENE [2]  
ORL RAT LD50 6040 mg/kg
- NAPHTHALENE  
ORL MUS LD50 316 mg/kg  
ORL RAT LD50 490 mg/kg  
SKN RAT LD50 >2500 mg/kg
- 1,2,4-TRIMETHYLBENZENE  
IPR RAT LDLO 1752 mg/kg  
ORL RAT LD50 5 gm/kg

**12. ECOLOGICAL INFORMATION**

**Mobility:** Floats on water.

**Persistence and degradability:** Only slightly biodegradable.

**Bioaccumulative potential:** Bioaccumulation potential.

**Other adverse effects:** Harmful to aquatic organisms.

**13. DISPOSAL CONSIDERATIONS**

**Disposal operations:** D8 Biological treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are disposed of by means of any of the operations in this Annex.  
R1 Solvent reclamation/regeneration.

**Disposal of packaging:** Burn in a chemical incinerator equipped with afterburners and scrubbers. Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORT INFORMATION****ADR / RID**

**UN no:** -

**Shipping name:** "NOT SUBJECT TO ADR"

**IMDG / IMO**

**UN no:** -

**IATA / ICAO**

**UN no:** -

**15. REGULATORY INFORMATION**

**Hazard symbols:** Symbol not required.

**Risk phrases:** R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66: Repeated exposure may cause skin dryness or cracking.

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**Safety phrases:** S2: Keep out of the reach of children.  
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.  
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**Water hazard class:** 2 Classification by VwVwS

**Air emission directive:** Class: III Amount m%: 50

**Note:** Refer to all applicable national, international and local regulations or provisions.

**16. OTHER INFORMATION**

**Risk phrases used in s.3:** R65: Harmful: may cause lung damage if swallowed.  
R66: Repeated exposure may cause skin dryness or cracking.  
R10: Flammable.  
R37: Irritating to respiratory system.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R22: Harmful if swallowed.  
R40: Limited evidence of a carcinogenic effect.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R20: Harmful by inhalation.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R36/38: Irritating to eyes and skin.  
R38: Irritating to skin.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.