

SAFETY DATA SHEET
VOLTRONIC SUPER DOT4 BRAKE FLUID

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

Product name: VOLTRONIC SUPER DOT4 BRAKE FLUID

Synonyms: SUPER DOT 4 BREMSFLÜSSIGKEIT

Use of substance / preparation: Brake Fluid

Company name: VOLTRONIC & ACT GmbH

Weidenweg 12

Bad Boll

D-73087

Germany

Tel: +49 7164 4016

Fax: +49 7164 5994

Emergency tel: +49 7164 4016

Email: info@voltronic-germany.com

2. HAZARDS IDENTIFICATION

Main hazards: No significant hazard.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: 1,1'-IMINODIPROPAN-2-OL 1-10%

EINECS: 203-820-9 CAS: 110-97-4

[Xi] R36

- 2,2'-OXYBISETHANOL 1-10%

EINECS: 203-872-2 CAS: 111-46-6

[Xn] R22

- TRIETHYLENGLYCOLDIMETHYLETHER 1-10%

CAS: 112-49-2

[Xn] R62; [Xn] R63

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be pain and redness.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Wash out mouth with water. Consult a doctor.

[cont...]

SAFETY DATA SHEET
VOLTRONIC SUPER DOT4 BRAKE FLUID

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

5. FIRE-FIGHTING MEASURES

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

Exposure hazards: In combustion emits toxic fumes. In combustion emits toxic fumes of carbon monoxide. In combustion emits toxic fumes of sulphur oxides. In combustion emits toxic fumes of nitrogen oxides.

Protection of fire-fighters: Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas.

Clean-up procedures: Mix with sand or vermiculite. Refer to section 13 of SDS for suitable method of disposal.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Avoid direct contact with the substance.

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

Suitable packaging: Must only be kept in original packaging. Steel drums. Polyethylene.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: 2,2' -OXYBISETHANOL
WEL (8 hr exposure limit): 101 mg/m³

Engineering measures: Ensure storage room has retention walls. The floor of the storage room must be impermeable to prevent the escape of liquids.

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

Eye protection: Safety glasses.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Yellow

Odour: Characteristic odour

Solubility in water: Miscible

Viscosity: Oily

SAFETY DATA SHEET
VOLTRONIC SUPER DOT4 BRAKE FLUID**Viscosity value:** 2**Viscosity test method:** DIN 51562/T1/ 100°C**Boiling point/range°C:** 260**Flammability limits %: lower:** 1,5**Flash point°C:** >120**Autoflammability°C:** >200**Vapour pressure:** <0,1 hPa**Relative density:** 1,07**10. STABILITY AND REACTIVITY****Stability:** Stable under normal conditions.**Conditions to avoid:** Heat.**Materials to avoid:** Strong oxidising agents.**Haz. decomp. products:** In combustion emits toxic fumes.**11. TOXICOLOGICAL INFORMATION****Hazardous ingredients:** 1,1'-IMINODIPROPAN-2-OL

IPR MUS LD50 96 mg/kg

ORL RAT LD50 4765 mg/kg

Chronic toxicity: Danger of cumulative effects through inhalation. Danger of very serious irreversible effects in contact with skin.**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.**12. ECOLOGICAL INFORMATION****Mobility:** Soluble in water.**Persistence and degradability:** Biodegradable in part only.**Bioaccumulative potential:** Bioaccumulation potential.**Other adverse effects:** Harmful to aquatic organisms.**13. DISPOSAL CONSIDERATIONS****Disposal operations:** D9 Physico-chemical 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 (e.g. evaporation, drying, calcination, etc.).

R8 Oil re-refining or other re-uses of oil.

Waste code number: 55356**Disposal of packaging:** 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: No significant hazard.

Safety phrases: S2: Keep out of the reach of children.

S24/25: Avoid contact with skin and eyes.

Water hazard class: 1 KBwS classification

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.3: R36: Irritating to eyes.

R22: Harmful if swallowed.

R62: Possible risk of impaired fertility.

R63: Possible risk of harm to the unborn child.

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.