

Material Safety Data Sheet according to EC directive 2001/58/EC

Effectiv Date: 10.04.07

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1. Identification of the Substance/Preparation and Company/Undertaking

- Material Name : **base battery liquid smokefluid**
- Use: To produce smoke and dust.
- Manufacturer/supplier: hazebase Stargarder Straße 2 D-30900 Wedemark
- Local Contact: Tel.0049-(0)5130-371005
- Emergency Telephone Number: Tel.0049-(0)5130-371005

2. Composition/Information on Ingredients

- Composition of glycol and water
- | CAS-Nr. | EINECS/EG-Nr. | Chemical name | % | R-phrases |
|---------|---------------|---------------|---|-----------|
|---------|---------------|---------------|---|-----------|

3. Hazards identification

- No specific hazards under normal use conditions.

4. First aid measures

- Remove contaminated clothing.
- Skin contact: Flush exposed area with water and follow by washing with soap if available.
- Eye contact: Flush eyes with water while holding eyelids open. Rest eyes for 30 minutes. If redness, burning, blurred vision, or swelling persist, transport to the nearest medical facility for additional treatment.
- Ingestion: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

5. Fire fighting Measures

- Extinguishing Media: Large fires should only be fought by properly trained fire fighters. Dry chemical powder, carbon dioxide or protein based foam. If water has to be used it must only be sprayed in large quantities. Do not discharge extinguishing waters into the aquatic environment. Foam. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
- Protective equipment for Firefighters: Wear full protective clothing and self-contained breathing apparatus.
- Additional advice: All storage areas should be provided with adequate fire fighting facilities. Keep adjacent containers cool by spraying with water.

6. Accidental release measures

- Protective measures: Avoid contact with spilled or released material. For guidance on selection of personal see Chapter 8 of this MSDS. Prevent from spreading or entering into drains, ditches or rivers by using sand or earth or other appropriate barriers.
- Clean up methods: Contain run-off from residue flush and dispose of properly. Soak up residue with an absorbent such as clay, sand or other suitable material.
- Additional Advice: See chapter 13 for information on disposal. Observe all relevant local regulations. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Dike and contain spill water.

7. Handling and storage

- Handling: Handle with care.
- Storage: Keep away from children and sunlight. Storage temperature: Ambient. 60°C maximum.
- Recommended materials: PE, PP, PET, stainless steel, glass.

8. Exposure Controls/ Personal protection

- Occupational exposure limits: Workplace exposure limits none established.
- Personal protective equipment: Personal protective equipment (PPE) should meet recommend national standards. Check with PPE suppliers.
- Hand protection: Where hand contact with the product may occur the use of gloves approved to relevant standards(e.g. Europe: EN 374, US:F739) made from the following materials may provide suitable chemical protection: Longer term protection: PVC, neoprene rubber, nitrile rubber. Suitability and durability of a glove is dependent of usage, e.g. frequency and duration of dexterity. Always seek advice from glove suppliers.
- Eye protection: Chemical splash goggles.
- Additional information: Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use.

9. Physical and chemical properties

- Appearance: Colorless. Slightly viscous liquid.
- Odour: Odourless, mild
- Boiling point: 280-295°C / 536 – 563°F
- Specific gravity (20°C): 1,11 g/cm³
- Kinematic viscosity: (20°C): Ca. 42 mPas
- Melting / freezing point: -6°C
- Flash point: >135°C
- Auto-ignition temperature: 320°C
- Water solubility (20°C): Completely soluble

10. Stability and reactivity

- Stability: Stable under normal conditions of use.
- Materials to avoid: Strong oxidising agents. Strong acids, strong bases.

- Handelsname: **base battery liquid smokefluid**

11. Toxicological information

- Ethylene triglycol LD 50 (oral, Ratte) : >2000mg/kg. Not toxic.
 - Skin: May cause moderate skin irritation (but insufficient to classify)
 - Eyes: Moderately irritating to eyes (but insufficient to classify)
 - Sensitisation: Not expected to be a skin sensitiser.
 - Additional advice: If the using of the product is intended, there will be no harmful effect.
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12. Ecological information

- Persistence/degradability: Inherently biodegradable. Oxidises rapidly by photo-chemical reactions in air.
Acute toxicity
 - fish: LC 50 (leuciscus idus) 96h >100mg/l
 - Basis for assessment: Information given is based on product testing, and/or similar products, and/or components.
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13. Disposal considerations

- Product: Recover or recycle if possible. Remnants back to the supplier.
 - Advice cleaner: Water, in case with cleaner.
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14. Transport information

This product is not classified as dangerous under ADR regulations.

15. Regulatory information

- The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.
EC classification: Not classified as dangerous under EC criteria.
Be careful by using chemical products.
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16. Other information

- This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
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