

## SAFETY-SHEET

for the following products

Eurolite Smoke-Fluid „B“, No. 51704199

Eurolite Smoke-Fluid „C“, No. 51704203

Eurolite Smoke-Fluid „P“, No. 51704210

Eurolite Smoke-Fluid „E“, No. 51704325

Eurolite Smoke-Fluid „X“, No. 51704355

### **Method:**

The product was vaporized in a usual vaporizer smoke-machine. The condensate was collected and chemically analyzed. In order to find reaction-products or impurities. In order to assess the maximum concentration in the room-air for smoke-machine operations, a model calculation was carried out.

### **Assessment:**

The maximum concentration in the room-air expected due to the model calculation showed that the effect on persons is harmless to health.

There is no MAK-value for the product. In order to make an assessment, the TLV-value (USA: Threshold Limit Value) can be used. In the U.S., this value is used for assessing the air-pollution at the working place and is comparable to the German MAK-value.

When using the products mentioned above in a correct way, the TLV-value is not reached. Even the model calculation did not reach this value by far (Worst case-assessment).

For falling so clearly below the American threshold, any danger to health is excepted.

### **Summary:**

The smoke-fluids mentioned above were chemically analyzed before and after use in a standard vaporizing smoke-machine.

No relevant impurities were found.

The emission-rate and the duration of the smoke-cycles were determined and a model calculation was carried out for a theoretically possible room pollution.

The US threshold value (TLV-value) is given in literature.

As the concentration in the room-air is very much below this threshold value, any health hazard caused by the product can be excepted.

However, attention should be drawn to the fact that sensible persons may feel molested by the smoke.

### **1. Product and supplier**

Product-group: Smoke-Fluid

Supplier: Steinigke Showtechnik GmbH  
Andreas-Bauer-Str. 5  
D-97297 Waldbüttelbrunn, Germany

### **2. Composition**

Chemical characteristics: High-grade alcohols

### **3. Possible dangers**

None

### **4. First Aid measures**

General advice

after breathing in: None

after contact with skin: Clean with water and soap

after contact with eyes: Rinse with water, if there are troubles consult your doctor

after swallowing: Consult your doctor

Advice for the doctor: None

### **5. Measures for fighting burns**

Appropriate fire-extinguishing agents:  
The product is inflammable.

Inappropriate fire-extinguishing agents due to safety reasons:  
None

Special danger due to the product or its combustion products or produced gas:  
None

Special protection equipment when fighting fires:  
None

### **6. Measures if accidentally set free**

Measures related to persons:

Danger of skidding due to spilt product.

Measures for environmental protection (BRD):  
None

Cleaning procedures:  
Clean with liquid-binding material.

Further advice:  
None

### **7. Handling and storage**

Advice for safe handling:  
Store in unbreakable containers (like delivered).

Advice for fire-protection and explosion-protection:  
None

Requirements for the storing room and containers:  
No special requirements.

Advice for storing together:  
None

Further advice for storing:  
Only store in closed containers.

Storing class:  
None

### **8. Limitation to exposition and personal protection equipment**

Further advice for creating technical plants:  
None

Components with thresholds that have to be controlled:  
None

Further advice:  
None

Personal protection equipment, general protection and hygiene measures:

Breathing apparatus: Not necessary  
Hand protection: Not necessary  
Eye protection: Not necessary  
Body protection: Not necessary

### **9. Physical and chemical specifications**

Appearance

Form: liquid  
Colour: clear  
Smell: neutral

Data relating to safety:

Changing the state:

Melting point: Not defined  
Boiling point: Approx. 100°C  
Flash point: Not applicable  
Ignition temperature: Not applicable  
Self ignition: No  
Charecteristics promoting burns: No  
Danger of explosion: None  
Explosion thresholds lower: -  
upper: -

Steam pressure:

Density: 1,06 g / cm<sup>3</sup>  
Bulk density: -----  
Solubility in water ( 20°C): Whatever  
PH-value: Approx. 6.5  
Further indications: None  
Viscosity: Highly liquid

### **10. Stability and reaction**

Conditions that have to be avoided:  
None

Products that have to be avoided:  
None

Dangerous waste products:  
None

Further indications:  
None

### **11. Indications on the toxicology**

Acute toxicology:  
The product was not tested with animals.

Primary irritant effect:  
None

Sensitisation:  
Not sensitizing

Further indications:  
None

Sub-acute to chronic toxicology:  
None

Practic experience:  
None

Further indications:  
None

### **12 Indications on ecology**

Indications on elimination (persistence and decomposition):  
No data available

Behaviour in environmental components:  
None

Eco-toxical effects:  
None

Further indications:  
None

### **13. Advice on disposal**

Product:  
Dispose in accordance with local regulation.

Unclean packaging:  
Dispose in accordance with local regulation.

### **14. Indications on transporting**

ADR/RIP - GGVS/GGVE

Class:	Zi.:	
Warning-sign:	Danger-no.:	Product-no.:
Designation:		
Statements:		

ADR/ADNR

Class:	ZI.:	Kat.:
Designation:		
Statements:		

IMDG/GGVSee

Class:	UN-Nr.:	PG.Nr.:
EmS-Nr.:	MFAG:	Marine Pollutant:
Declaration:		
Statements:		

ICAO-TI-IATA-DGR

Class:	UN/ID-Nr	
PG.:	PAC:	CAC:
Declaration:		
Statements:		

Further indications: No dangerous product.

### **15. Regulation**

Declaration: No declaration required

R-Sätze:  
None

S-Sätze:  
None

National regulation:  
Indications on limits of hiring: None  
Regulation on interference: None  
Classification after VbF: Not necessary  
Technical regulation air: Not necessary  
Water-endangering class: None

### **16. Further indications**

All indications are based on today's information and experience. The safety-sheet describes products in respect to the safety-requirements. These indications do not have the meaning of guaranteeing certain features in the sense of quality description.