

Cartridge for Spraymaster, Spraymaster Multicolour, Pyromaster, Bob

## EG-Safety Data Sheet

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### 1.) Chemical Product and Company Identification

#### Produkt Name

## Spraymaster Effektaerosol „Dark Flame“

#### Usage

Fuel cartridge for effect-burner Spraymaster®, Spraymaster Multicolour, Pyromaster

#### Contact information

TBF-PyroTec GmbH

Lichterfelder Str. 5 A

21502 Geesthacht

#### Phone:

0049 4152 / 157 9950

### 2.) Composition and Information on Ingredients

#### Chemical composition

Complex liquified and liquid hydrocarbons with a different mixture of Isoparaffines (Isoalkanes)

#### Product identification

Cas-Nr.	EG-Nr.	content	Symbol	Name	R-phrases
67-56-1	200-659-6	30-70%	F, T	Ethanol	R11, R23/24/25 R39/23/24/25

propellant gas	30-70%	F	aliphatic ether
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### 3.) Hazards Identification

Potential Acute Health Effects (unburned product):

Hazardous in case of skin contact, of inhalation, or if swallowed

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

### 4.) First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention

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### Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

### Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

### Ingestion:

If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Aspiration hazard if swallowed- can enter lungs and cause damage. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

Serious Ingestion: Not available.

## 5.) Fire and Explosion Data (Contains of Cartridges)

Flammability of the Product: Highly Flammable.

Products of Combustion: These products are carbon oxides (CO, CO<sub>2</sub>).

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of static discharge: Not available.

Slightly explosive in presence of heat, of oxidizing materials.

Non-explosive in presence of shocks.

Fire Fighting Media and Instructions:

Flammable liquid, soluble or dispersed in water.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water or alcohol resistant foam. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards:

**EXTREMELY FLAMMABLE.**

Vapor may travel considerable distance to source of ignition and flash back.

Special Remarks on Explosion Hazards: Not available.

Other information:

Prevent fire-fighting water from entering surface water or groundwater

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### 6.) Accidental Release Measures

Person-related precautionary measures:

Do not inhale vapours/aerosols (unburned aerosols). Avoid substance contact.

Environmental-protection measures:

Do not allow to enter sewerage system.

Procedures for cleaning/absorption:

Take up with liquid-absorbent material. Forward for disposal. Clean up affected.

### 7.) Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray.. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage:

Store the cartridges in a segregated and approved area. Keep container in a cool, well-ventilated area. closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above 50°C (122°F).

### 8.) Exposure Controls/Personal Protection

#### Exposure limits

CAS-Nr.:	Art	TRGS
67-56-2-1	270mg/m <sup>3</sup> , 200ppm	900

Contents of cartridges may absorbed by skin

TWA: 600 STEL: 750 from ACGIH (TLV) [United States]

TWA: 1800 STEL: 2210 from ACGIH (TLV) [United States]

Consult local authorities for acceptable exposure limits.

#### Personal protection

##### Breathing protection:

Not available by normal application

##### Skin protection

Not available by normal application

##### Eye protection

Not available by normal application

##### Body protection

Not available by normal application

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### 9.) Physical and Chemical Properties

Physical state and appearance: Liquid.

Odour: characteristic

Boiling point: (1013 hPa)	64,5 °C
Ignition temperature:	455°C
Flash point:	11°C
Explosion limits: lower	5,5 Vol%
upper	36,5 Vol%
Vapour pressure (20°C):	128 hPa
Density (g/ml, 20°C):	0,79
Solubility in Water:	soluble
Viscosity (mPas, 20°C, liquid phase):	0,597
Bioconcentration factor	1

### 10.) Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources, incompatible materials.

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosion: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosion: It will attack some forms of plastics, rubber, and coatings.

Polymerization: Will not occur.

### 11.) Toxicological Information

**Toxicity to Animals:**

**LD/LC50-Value:**

(Rat Inhalation 4h) >20mg/l

**Special Symptoms to animals:**

Not known

**Special Remarks on Chronic Effects on Humans: Not available.**

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects (Not available by normal usage) by contact (content of cartridges only):

Skin: It can cause skin irritation with itching, drying erythema, hyperpigmentation, hyperemia, dermatitis, burning sensations, followed by formation of blisters. It may be absorbed by the skin and cause systemic effects.

Eyes: It is a strong eye irritant. Symptoms may include pain, corneal irritation, and nystagmus

Inhalation: It is a mild respiratory tract (nose, throat, lungs) irritant causing coughing, wheezing, and/or shortness of breath. Inhalation exposure to an airborne concentration of 5,000 ppm for 10 minutes appears to have no ill effect in humans, while 90,000 to 120,000 ppm can affect behavior/central nervous system and cause symptoms of central nervous system depression and narcosis. Symptoms of central nervous system depression include nausea, headache, weakness, dizziness, excitement, confusion, light headedness, sleepiness, seizures, inability to concentrate, loss of coordination and judgement, coma, and death with exposure to large amounts. It

may also affect the cardiovascular system (dysrhythmias), and metabolism (weight loss/loss of appetite/anorexia).

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Systemic effects: acidosis, drop in blood pressure, agitation, spasms, narcosis, coma. Symptoms may occur after a latency period has elapsed.

### 12.) Ecological Information

#### Biologic degradation

Readily biodegradable

#### Bioaccumulation:

No bioaccumulation.

#### Ecotoxic effects

Fish toxicity: LC 50 *Lepomis macrochirus* 15400 mg/l 48h

Daphnia toxicity: NOEC *Daphnia magna* 10000 mg/l 48h

Algal toxicity : NOEC *scenedesmus quadricauda* 8000 mg/l

Bacterial toxicity : *Pseudomonas putida* 6600 mg/l 16h

Do not allow to enter waters, waste water, or soil.

### 13.) Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### 14.) Transport Information

#### ADR/RID

Class 2

Code: 2F

UN 1950

UN-No.: 1950

Street: UN 1950 Aerosols 2 5F ADR

Rail: UN 1950 Aerosols 2 5F

Int.: UN 1950 Aerosols 2 5F RID/ADR

#### Further transport information

Transport by passenger plane: 75 kg

Transport by air freighter: max. 150kg

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### 15.) Other Regulatory Information

#### EG-Regulations

German regulations: „Gefahrstoffverordnung in Verbindung mit dem Chemikaliengesetz“

Label: F+ Highly inflammable, T toxic

Contains : Ethanol

#### R-phrases:

R11 highly inflammable, R23/24/25 Toxic by inhalation, in contact with skin and if swallowed R39/23/24/25

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

#### S-phrases

S 1 /2: Store closed and unapproachable for children.

S7: Keep container tightly closed.

S16: Keep away from sources of ignition- no smoking

S 36/37-45: Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advise immediately (show this label where possible)\*

\*for unburned product

### 16.) Other Information

References: Not available.

Other Special Considerations: Not available.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.*