

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 normal

Usage

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

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)

Pressure in cartridge (temp.: 20°C): 2,8 bar

Product identification

Cas-Nr.	Einecs-Code	Inhalt	Gef.-Symbol	Name	R-Sätze
74-98-6	200-827-9	30-40%	F+	Propane	R12
106-97-8	203448-7	1-5%	F+	Butane	R12
75-28-5	200-857-5	1-5%	F+	Isobutane	R12
106-99-0	203-450-8	1-5%	F+	1,3-Butadien	R12
		55-65%	F+	Isoparaffines	R12

3.) Hazards Identification

Potential Acute Health Effects:

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:

Hazardous in case of ingestion, of inhalation.

Slightly hazardous in case of skin contact (sensitizer).

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to kidneys, the nervous system, liver, skin, central nervous system (CNS).

Repeated or prolonged exposure to the substance can produce target organs damage.

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, CO₂).

Fire Hazards in Presence of Various Substances:

Extremely flammable in presence of open flames and sparks, of heat.

Flammable in presence of oxidizing materials.

Non-flammable in presence of shocks.

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 alcohol foam, water spray or fog. 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.

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6.) Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:

Flammable liquid.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV.

Check TLV on the MSDS and with local authorities..

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. Wear suitable protective clothing. 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	Wert	Einheit
106-00-0	TRK	5	ppm
106-97-8	MAK	1000	ppm
75-28-5	MAK	1000	ppm
74-98-6	MAK	1000	ppm

Isoparaffines:

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.

Odor: Pleasant. Gasoline-like

Taste: Not available.

Boiling point: -48 bis 30°C (-54°F – 86°F)

Ignite temperatur: ca. 400°C (752°F)

Vapor pressure (hPa, 70°C): <31000

Dichte (g/ml, 50°C):

Solubility in Water: insolubly

Viscosity (mPas, 20°C, liquid phase under vapor pressure): > 0,12

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.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: 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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12.) Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Disposal Considerations

Waste Disposal:

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

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

Die Zuordnung einer Abfallschlüsselnummer gemäß europäischem Abfallkatalog (AAV) ist in Absprache mit dem regionalen Entsorger vorzunehmen.

Verpackung

Verpackungen müssen restentleert werden und sind in Übereinstimmung mit den gesetzlichen Vorschriften einer ordnungsgemäßen Entsorgung zuzuführen.

Nicht restentleerte Verpackungen sind in Abstimmung mit dem regionalen Entsorger zu entsorgen.

14.) Transport Information

ADR/RID

Class 2.1

Code: 2F

UN 1950

UN-No.: 1950

Street: UN 1950 Aerosols 2 5F

Rail: UN 1950 Aerosols 2 5F

Int.: UN 1950 Aerosols 2 5F

Further transport information

Transport by passenger plane: 75 kg

Transport by air freighter: max. 150 kg

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15.) Other Regulatory Information

EG-Regulations

German regulations: „Gefahrstoffverordnung in Verbindung mit dem Chemikaliengesetz“

Label: F+ High inflammable

Contains : Propane, Butane, Isobutane, Isoparaffine (Isoalkane)

R12: High inflammable

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.