

## Product Data Sheet

### **PRYMOS® FIRE-EXTINGUISHER-SPRAY – UNIVERSAL Home & Kitchen 600ml**

#### **1. Preface, General Statements**

A huge fire is always small in the beginning. As long as the flames are locally bounded and have not overlapped the surroundings, a fire can be extinguished successfully with relatively little effort and means. The earlier this happens the less damage will occur, hence a quick reaction is the most important matter in fire-fighting.

An inauspiciously located fire extinguisher, which can only be used with a lot of energy and might even require reading a manual, will not allow a short response time. Accordingly it is important to have an extinguisher available immediately, **ready-to-hand** in case of emergency, **most easily activated** and with **reliable extinguishing power**. PRYMOS Fire Extinguisher Sprays meet each of these demands.

#### **- Instant Usability**

PRYMOS **UNIVERSAL** Fire Extinguisher Spray is a ready-to-use extinguisher designed for households, caravans, mobile homes, boats, yachts etc. Its dimensions are those of a big standard spray can (600 ml/abt.20.28 fl oz) and it can easily be stored at each possible place and/or be fixed by a holder at a significant place (first-aid kit, workbench, near oven) in the household or in the caravan, ensuring that the fire extinguisher is easy to reach exactly where fire can arise. In case of fire the customer is able to act as fast as can be and does not lose precious seconds by looking for and getting out a bulky fire extinguisher. Recognized practice standards must, of course, be fully attended to in any case.

#### **- Simple and Safe Application**

PRYMOS **UNIVERSAL** Fire Extinguisher Spray is provided with a plastic cap, which can be switched off with only little effort. The spray nozzle can be used like each standard spray nozzle, the customer thus utilizes the aerosol can intuitively and operation errors are virtually out of question. Quality controlled manufacturing ensures full capacity of operational readiness.

#### **- Extinguishing power 5A / 13B / 15F**

The power of an extinguishing system is basically determined by extinguishing agents and extinguishing techniques. PRYMOS **Universal** Fire Extinguisher Spray consists of high-performance foam, covering each kind of considerable fire classes (A/B/+F), so that the purchase of different fire extinguishers for different kinds of fires can possibly be unnecessary. These foams are aqueous solutions, so-called Aqueous Film-Forming Foams (AFFF). In the biochemical process of spraying heavy foam is developed. Its quenching effect is the deprivation of heat and separation of the reactants. This effect is supported by a homogeneous, cone-shaped geometry of the spray flow as well as the cooling effect of the liquid agent.

With its Fire Extinguisher Spray **UNIVERSAL**, PRYMOS provides professional extinguishing technology for household, kitchen, offices and recreation, i.e. for non-experts in fire fighting. Periodic maintenance or surveillance are not required. Extinguishing system and filling capacity are designed for one time use; the spray should be replaced by a new original PRYMOS fire extinguisher after use.

The operational liability of the fire extinguisher is granted for four years (48 months) In Germany, the depleted can has to be reintroduced into the recoverable substance cycle within the Dual system. Other countries may have their own corresponding recycling systems.

## 2. Execution

Like all PRYMOS Fire Extinguishers PRYMOS Fire Extinguisher Spray **UNIVERSAL** is designed in a simple 965 ml/32.63 fl oz customary aluminum spray can.

## 3. Specification

The **5A / 13B / 15F** extinguishing power of PRYMOS Fire Extinguisher Spray **Universal** for solid and liquid substances as well as for edible fats and oil (fire classes A/B/F) was proved by successful extinguishing of standardized unit under testing. The standard BS6165:2002 with the rating of **5A**, **13B** and **15F** was recognized for solid materials like wood, paper and textiles as well as for liquid fuels and edible oils and fats. Adequate certificates from a governmental recognized inspection authority for fire extinguishing agents and tools are available (MPA Dresden). The product can be used to extinguish fire at live electrical equipment with voltages up to 1000 Volts (provided that a minimum distance of 1 meter/3.281 ft is maintained). PRYMOS foams fulfill the DIN EN 1568 standards and are admitted to the governmental recognized inspection authority for fire extinguishing agents and tools.

## 4. Technical Data

Diameter	74 mm/2.91 in
Height	280 mm/11.02 in
Weight	approx. 830g/1.83 lb
Total volume	965 ml/32.63 fl. oz
Volume (net)	600 ml/20.29 fl oz
Pressure	approx. <b>9.5 bar</b> or (0.9 MPa) ±5%
Discharge Distance	approx. 3.5 m/11.48 ft
Discharge time	approx. 22 sec.
Discharge medium	Nitrogen
Extinguishing agent	Extinguishing foam PM-ABF-2 (AFFF)
Density:	approx. 1.12 g/cm <sup>3</sup> (20°C)
Burst pressure	<b>38 bar</b>
Working temperature	-10°C - + 50°C/14°F - 122°F
Minimum durability	48 months (4 years - ref. date on bottom of the can)

## 5. Description of function

By pressing the spray nozzle the extinguishing agent is released. The extinguishing effect is actively supported by the generated dispersion image.

## 6. Mode of functioning

The high-performance foam is based on an aqueous solution. By means of its heat binding capability water cools down burnt material. At the same time thermic reaction conditions are disturbed with the effect that no inflammable gases and fumes can arise. The degree of droplet dispersion determines an optimal contact surface for heat transfer. Additives change the surface tension of the water and build the film forming foam supported with pressure and geometry of the nozzle. The conflagrative reaction will be stopped by this film forming layer.

## 7. Application areas

PRYMOS Fire Extinguisher Spray **Universal** can extinguish fires of solid materials and liquids (excluding polar solvents like alcohol or ketones) as well as burning fat up to a total of 15 liters/507.2 fl. oz. The impregnating effect of the film forming agent can also be used as a heat shield. By the cooling impact hot surfaces can thus be cooled down to a lower level.

## 8. Operation

After removing the cap the extinguishing agent can be sprayed directly - in intervals - into the fire source. Please keep a safe distance!

In case of contact with eyes or mouth flush with plenty of water immediately.

## 9. Storage

PRYMOS Fire Extinguisher Spray **Universal** should be stored at a temperature between 0°C and +35°C/32° to 95°F. The fire extinguisher must be protected from frost and should be stored at a dry place, easy to access.

## 10. Maintenance

Special maintenance is not required. The minimum durability of the product is 48 months (4 years).

## 11. Article packing

PRYMOS Fire Extinguisher Spray **Universal** (Article No. 631)

- Cardboard with 12 PRYMOS Fire Extinguisher Sprays **Universal**
- Half pallet (336 pcs.)
- Full pallet (660 pcs.)

## 12. Distinctive features

PRYMOS Fire Extinguisher Spray **Universal** is also available for fires fed by fats and oils (please also refer to PRYMOS Fire Extinguisher Spray **Gastronomy**). PRYMOS Fire Extinguisher Sprays are provided with an original closing cap and control strip, easily recognizable for the customer.

## 13. Authorization

PRYMOS Fire Extinguisher Spray was examined by the MPA Dresden according to BS6165:2002; Official approval forms from the Ministry of the Interior and the Ministry of the environment in North-Rhine-Westphalia (representative reference to the Federal Republic of Germany) for active product marketing measures are available. The extinguishing tool is identified according to German law for device- and product-security. Regulatory decrees for the packaging ordinance are strictly observed.

## 14. Miscellaneous

The mentioned national standards adhere to "Specification for small disposable fire extinguishers of the aerosol type" BS 6165:2002

You can watch PRYMOS Fire Extinguisher Spray **UNIVERSAL** in action in a video, see:

<http://www.prymos.com>

Prymos GmbH

Gerbermühlstraße 9

D-60594 Frankfurt am Main