

**MATERIAL SAFETY DATA SHEET**

| <b>SECTION 1: Chemical product and company Identification</b> |  |
|---|--|
| Product name / Trade name                                     | ESP 004; ESP 005   |
| Material uses   | Flame inhibitor  |
| Manufacturer: Registered office                               | E.S.P. S.r.l.<br>Via Settala, 10<br>20124 Milano - Italy   |
| Manufacturing Plant:  | Strada per Chieri, no. 109<br>14019 Villanova d'Asti, AT - Italy<br>Phone +39/0141-94 62 58<br>Fax +39/0141-94 60 33<br>Email: <a href="mailto:info@firestryker.net">info@firestryker.net</a><br>Website: <a href="http://www.firestryker.com">www.firestryker.com</a> |

| <b>SECTION 2: Composition, Information on Ingredients</b> |           |   |
|---|-----------|---|
| Components-Chemical<br>(hazardous Components $\geq$ 1%)   | CAS #     | Comment   |
| Potassium Nitrate   | 7757-79-1 | Composition of the extinguishing charge is contained within a sealed aluminum casing. |
| DCDA  | 461-58-5  |   |
| Organic resin   | 9003-35-4 |   |
| Extinguishing Charge:                                     |           | Polymerized mixture of Organic and Inorganic Salts                                    |
| Fluid Aerosol:  |           | Particulates of Potassium Salts, Nitrogen and Water Vapor                             |

| <b>SECTION 3: Hazard Identification</b> |  |
|---|--|
| European Directive 67/548/CE - 99/45/CE |  |
| Emergency overview:                     |  |
| Extinguishing charge                    | Exothermic reaction during functioning   |
| Fluid Aerosol                           | High temperature at a limited distance from dispenser.<br>May cause eye and skin irritation.<br>May be harmful if inhaled. |

| <b>SECTION 4: First Aid Measures</b> |  |
|--------------------------------------|--|
| Body                                 | Extinguishing charge: None, contact when the flame inhibitor is assembled is impossible.<br>Do not touch the tube of the dispenser during/after use. |
| Skin / Eye Contact                   | Fluid Aerosol: after contact, wash/flush immediately with running water.<br>Medical attention is necessary in case of direct contact burns           |

| <b>SECTION 5: Fire and Explosion Data</b> |   |
|---|---|
| Flammability of the product               | Beginning of self ignition phenomena over 300°C (over 572°F). |

**SECTION 6: Accidental Release Measures**

No particular action: the emission of the extinguishing charge when the flame inhibitor is assembled is impossible, as it is inert material.

**SECTION 7: Handling and Storage**

Normal attention in handling.  
 In case of unintentional activation of the flame inhibitor, wait for the complete aerosol discharge and ventilate the area.  
 Avoid the direct contact of the product with open flames.  
 Store in an environment between -10°C and +50°C (+14°F and +122°F).  
 Packaging in cardboard boxes; do not pile the boxes higher than 2 mt  
 Transportation in conformance with ADR Class 4.1  
 Medical attention is unnecessary.

**SECTION 8: Exposure Controls, Personal Protection**

No individual protection, stick to the instructions legible on the product and inside each packaging box.

**SECTION 9: Physical and Chemical Properties**

|                                     |  |
|-------------------------------------|--|
| Extinguishing charge physical state | from 20°C solid to 0°C solid (from 62°F solid to 32°F) |
| Self Ignition Temperature           | about 350°C (about 662°F)                              |
| Conductivity                        | Non conductor  |
| Fluid Aerosol physical state        | Gaseous  |
| Exit temperature                    | high, safety distance from supply source 1mt           |
| Conductivity                        | Non conductor up to 100.000 Volt                       |

**SECTION 10: Stability and Reactivity**

The product is stable with regards to the temperature and environmental pressure.  
 Do not expose to the contact with free flames.  
 During use no dangerous decomposition products are produced.

**SECTION 11: Toxicological Information**

Toxic by-products of combustion are extremely low

**SECTION 12: Ecological Information**

No ecological risks.  
 ODP Ozone Depletion Potential = zero  
 GWP Global Warming Potential = zero  
 ATL Atmospheric Life Time = negligible

**SECTION 13: Disposal Considerations**

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

**SECTION 14: Transport Information**

|  |  |
|--|--|
| ADR classification (RID/ADR)<br>PIN    | ADR 4.1<br>UN CODE 3178, PACKING GROUP III |
| IMDG classification (MDD)<br>PIN       | ADR 4.1<br>UN CODE 3178, PACKING GROUP III |
| IATA classification (ICAO-IATA)<br>PIN | ADR 4.1<br>UN CODE 3178, PACKING GROUP III |

|   |   |
|---|---|
| <b>SECTION 15: Other Regulatory Information</b> |   |
| No restrictions to commercialization            |   |
| EC Classification/Labeling                      | Do not touch metal cylinder during and after use.<br>Risk of burning > 90°C (>194°F)<br>Keep out of the reach of children<br>Do not point the aerosol jet at people<br>Do not use in a confined space less than m3<br>The product does not extinguish live coal<br>Do not disassemble<br>For vehicles: store in trunk |

|  |                     |
|--|---------------------|
| <b>SECTION 16: Other Information</b>   |                     |
| Carefully read instructions before use.  |                     |
| Documentation: analysis and test report by the Polytechnic of Turin, Science of Material & Chemical Engineering Department |                     |
| Validated and verified by  | Mr. Giuseppe Lavesi |
| Revision #3  | March 28, 2013      |

*Notice to reader: information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any patent or in violation of any law and regulation. It is the user's responsibility to determine for himself the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.*