



MATERIAL SAFETY DATA SHEET

SECTION 1 Identification of Substance/Preparation & Company

Trade Name: MSL FIRECHECK
CAS Registry No.: Not applicable to mixture
Manufacturer's Name: Mainstage Presentation Technology Limited
Address: Lancashire LA1 4XS. U.K.
Emergency Tel No.: +44 (0)1524 844 099

Application: Flame retardant spray for natural and synthetic materials.

SECTION 2 Ingredients

Composition: Aqueous solution of Urea, Phosphate, Sulphite and Bromide.
Appearance: Clear solution with detergent smell

SECTION 3 Health Hazard Data

Dangers to Health: The product is harmless, although contact with eyes or skin (when wet) may cause irritation.

SECTION 4 Emergency and First Aid Procedures

Ingestion: If conscious, wash the mouth out with water.
Do not induce vomiting.
If conscious, give one pint of water to drink immediately. If irritation develops or persists seek medical attention.

Skin: Wash with soap and water

Eyes: Flush with water for at least 10 minutes.

Inhalation: Not applicable under normal conditions of use. Remove casualty from exposure ensuring ones own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If symptoms develop seek medical attention.

SECTION 5 Fire AND Explosion Hazard

Flash Point: N/A
Flammable Limits: N/A
Extinguishing Media: N/A
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None Known
Special Fire Fighting Procedures: None

SECTION 6 Steps to be taken in case of release or spill

Contain by diking spill area, absorb with common absorbent.
Place in suitable containers for disposal in accordance with Local Authority regulations.
After clean up, wash down with water drain.

SECTION 7 Handling and Storage

Safe Handling: Wear suitable protective clothing.
Ensure there is sufficient ventilation of the area.
Avoid the formation or spread of mists in the air.
Avoid contact with the material.

Storage: Temp: +1°C to 30°C

Suitable packaging: Plastic. Plastic-lined.



SECTION 8 Special protection information

<i>Respiratory Protection:</i>	If sprayed as mist, use a respirator.
<i>Protective Gloves</i>	Rubber
<i>Eye Protection:</i>	Safety goggles. Ensure eye bath is to hand.
<i>TWA(8 hr exposure limit):</i>	See Section 16.
<i>STEL(15 min exposure limit):</i>	See Section 16.

Smoking or eating should not be allowed in the work area.
Do not take internally.

SECTION 9 Physical Data

<i>Solubility in water:</i>	1 to any amount of water
<i>Specific Gravity:</i>	(H ₂ O – 1): 1.17pH 5.5 to 6.5
<i>Percent Solids by weight:</i>	18.5
<i>Evaporation rate:</i>	Water

SECTION 10 Stability

<i>Stability:</i>	Stable
<i>Storage:</i>	Temp: +1°C to 30°C
<i>Shelf Life:</i>	Unlimited
<i>Hazardous Decomposition Products:</i>	HBr and Br ₂ given off at high temperatures
<i>Container:</i>	Plastic
<i>Materials to avoid:</i>	Acids. Bases. Oxidising agents.

SECTION 11 Toxicological Information

<i>Effects of exposure</i>	Watering of the eyes. High concentrations of mist will irritate respiratory tract. Diarrhoea.
<i>Routes of exposure:</i>	Oral: Low order of acute toxicity. May cause mild irritation to eyes and skin. No known teragenic effects.
<i>Ingredient 2:</i>	AMMONIUM SULPHATE ORL RAT LD50 300mg/kg
<i>Ingredient 3:</i>	AMMONIUM BROMIDE IPR GPG LD50 535mg/kg IPR MUS LD50 559mg/kg ORL MUS LD50 2860mg/kg ORL RAT LD50 2700mg/kg
<i>Ingredient 4:</i>	UREA ORL RAT LD50 > 50g/kg ORL RBT LD50 > 3.2g/kg

SECTION 12 Ecological Information

<i>Mobility:</i>	Soluble in water. Non-volatile
<i>Persistence and degradability:</i>	There is no data available at present.
<i>Bio accumulative potential:</i>	There is no data available at present.
<i>Other adverse effects:</i>	There is no data available at present. Not expected to cause significant environmental impact. Do not allow to enter the watercourse or soils. Spillage in sewers or waterways must be avoided.



SECTION 13 Disposal Considerations

- Waste disposal:* Do not wash into drains.
Do not mix with other waste chemicals.
Dispose of in accordance with local and national regulations and guidelines.
- Disposal of packaging:* Contaminated containers must not be treated as household waste.
Where practical, containers and packaging should be recycled by a licensed contractor.
- NB: The users attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14 Transport Information

No special precautions for transport.

SECTION 15 Regulatory Information

- Hazard symbols:* No significant hazard
- Risk phrases:* None recommended.
- Safety phrases:* None recommended.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The users attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

SECTION 16 Additional Information

- Additional Information:* There are no levels set for this product thus normal standards of industrial hygiene should be observed.
- Risk phrases used in s.2:* None recommended.
R22: Harmful if swallowed.
R36/37/38: Irritating to eyes, respiratory system and skin.
R36/38: Irritating to eyes and skin

PRODUCT ANALYSIS

COVERAGE	100-120sq.ft. per litre.
WEIGHT PER LITRE	1 kg as liquid.
TOTAL SOLID	18.5% after drying.
Ph CONTENT	5.8-5.9
VISCOSITY	38.4 bus at 100of (37.7°c) (Similar to water).
SOLVENTS	Water contains no Petroleum derivatives.
VOLATILITY	Non volatile.
FLASH POINT	Non flammable.
COLOUR	Clear.
ANTIFUNGUS	Good resistance.
BACTERIAL RESISTANCE	Good resistance.
LONG TERM DETERIORATION (to Applied materials)	None.
LINEAR SHRINKAGE	None.
MOISTURE ABSORPTION	Slightly hygroscopic when Dry at low temperature.
CARCINOGENIC ACTIVITY	Incorporated chemicals have None.

Legal Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The company shall not be held liable for any damage resulting from handling or from contact with the above product.