

SAFETY DATA SHEET

Version: 1.0 Date: 30.09.2015

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 2015/830



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
Product Name MSL Firecheck
CAS No. Mixture
EINECS No. Mixture
REACH Registration No. None assigned.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Identified Use(s) Flame retardant or fire preventing agent
Uses Advised Against None known.
- 1.3 Details of the supplier of the safety data sheet**
Company Identification Mainstage Ltd
Butler Works, Wyresdale Road, Lancaster, United Kingdom, LA1 3JJ

Telephone +44 (0) 1524 844 099
Fax +44 (0) 1524 841 808
E-Mail (competent person) m.sweetland@mainstageltd.com
- 1.4 Emergency telephone number** +44 (0)1524 844 099
Available during UK office hours (0900 – 1630 GMT)
English
Languages spoken

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.1 Regulation (EC) No. 1272/2008 (CLP)** Not classified as hazardous for supply/use.
- 2.2 Label elements** According to Regulation (EC) No. 1272/2008 (CLP)
Product Name MSL Firecheck
Hazard Pictogram(s) None assigned
Signal Word(s) None assigned
Hazard Statement(s) None assigned
Precautionary Statement(s) None assigned
- 2.3 Other hazards** High concentrations of mist may be irritant to the respiratory tract.
When wet: Slight irritant to the eye.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures Substances in preparations / mixtures
EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
Ammonium Bromide	1.00 – 5.00	12124-97-9	235-183-8	Not yet assigned in the supply chain	Eye Irrit. 2: H319: Causes serious eye irritation.

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SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Remove from exposure. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Apply artificial respiration if necessary. Keep warm and at rest. Get medical advice/attention if you feel unwell.

Skin Contact

Wash affected skin with soap and water. Remove contaminated clothing and wash clothing before reuse. If irritation (redness, rash, blistering) develops, get medical attention.

Eye Contact

Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Get medical advice/attention if you feel unwell. Do not induce vomiting unless instructed to do so by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

High concentrations of mist may be irritant to the respiratory tract. Diarrhoea.

4.3 Indication of any immediate medical attention and special treatment needed

When wet: Slight irritant to the eye.

Treat symptomatically. If symptoms occur obtain medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Non-flammable. As appropriate for surrounding fire. Water spray, foam, dry powder or CO₂

Unsuitable extinguishing Media

Do not use water jet. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture

None known. This product is a fire protection product and will not induce, accelerate or maintain fire.

5.3 Advice for fire-fighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Avoid all contact. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Ensure suitable personal protection during removal of spillages. Wear respiratory protection. Wear protective eyewear (goggles, face shield, or safety glasses). Wear rubber gloves, boots and apron.

6.2 Environmental precautions

Avoid release to the environment. Do not flush spilt material into any public water system.

6.3 Methods and material for containment and cleaning up

Absorb spillage in inert material and shovel up. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete. Avoid release to the environment. Disposal should be in accordance with local, state or national legislation.

6.4 Reference to other sections

See Section: 8, 10, 13

SECTION 7: HANDLING AND STORAGE

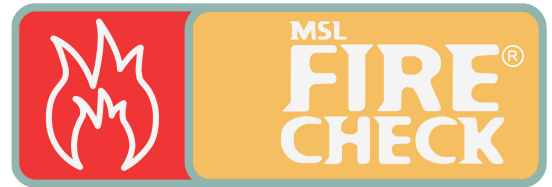
7.1 Precautions for safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Avoid generation of mist. Keep good industrial hygiene. Contaminated clothing should be thoroughly cleaned.

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7.2	Conditions for safe storage, including any incompatibilities	Keep only in the original container/package in a cool well-ventilated place. Keep container tightly closed and dry. Keep away from food, drinks and animal food. Stable at ambient temperatures. Recommended: 1-30°C Shelf life practically unlimited under recommended storage conditions. Keep in a cool, dry, well ventilated place.
	Storage temperature	
	Storage life	
	Incompatible materials	Acids, Alkalis, Strong oxidising agents
	Appropriate packaging	Plastic-lined / plastic containers
7.3	Specific end use(s)	See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters	
8.1.1	Occupational Exposure Limits	None assigned.
8.1.2	Biological limit value	Not established.
8.1.3	PNECs and DNELs	Not established.
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Ensure adequate ventilation. Good hygiene practices and housekeeping measures
8.2.2	Individual protection measures, such as personal protective equipment (PPE)	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Avoid generation of mist. Keep good industrial hygiene. Contaminated clothing should be thoroughly cleaned.
	Eye/face protection	Wear protective eyewear (goggles, face shield, or safety glasses). Recommended: Wear eye protection with side protection (EN166).
		
	Skin protection	Hand protection: Prolonged, direct contact: Wear impervious gloves (EN374).
		
	Respiratory protection	Body protection: Wear rubber gloves, boots and apron.
		
	Thermal hazards	In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protective equipment should conform to the appropriate EN standard.
8.2.3	Environmental Exposure Controls	None anticipated. Avoid release to the environment. Do not release large quantities into the surface water or into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Appearance	Aqueous solution
	Odour	Very slight detergent-like odour
	Odour Threshold	Not established.
	pH	5.5 – 6.5
	Melting Point/Freezing Point	Not established.
	Initial boiling point and boiling range	Not established.
	Flash Point	Not established.
	Evaporation Rate	Not established.
	Flammability (solid, gas)	Not established.

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Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not established.
Vapour density	Not established.
Relative density	Not established.
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not established.
Auto-ignition temperature	Not established.
Decomposition Temperature	Not established.
Viscosity	Not established.
Explosive properties	Not explosive
Oxidising properties	Not oxidising.

9.2 Other information None known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None known. Hazardous polymerisation will not occur.
10.4 Conditions to avoid	Keep away from incompatible materials.
10.5 Incompatible materials	Acids, Alkalis, Strong oxidising agents
10.6 Hazardous decomposition product(s)	None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures)	
Acute toxicity	
Ingestion	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day
Inhalation	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >5 mg/l
Skin Contact	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
11.2 Other information	None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Based on available data, the classification criteria are not met. Estimated LC50 (96 hour) Fish > 100 mg/l
12.2 Persistence and degradability	Not established.
12.3 Bioaccumulative potential	Not established
12.4 Mobility in soil	The product is predicted to have high mobility in soil.
12.5 Results of PBT and VPvB assessment	Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6 Other adverse effects	None known.

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SECTION 13: DISPOSAL CONSIDERATIONS

- | | | |
|------|--------------------------------|--|
| 13.1 | Waste treatment methods | Dispose of contents in accordance with local, state or national legislation. Do not dispose of with household waste. Do not allow to enter drains. |
| 13.2 | Additional Information | Containers must be decontaminated in accordance with all applicable regulations. |

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	IMDG	IATA/ICAO
14.1	UN number	None assigned.	None assigned.
14.2	UN proper shipping name	None assigned.	None assigned.
14.3	Transport hazard class(es)	None assigned.	None assigned.
14.4	Packing group	None assigned.	None assigned.
14.5	Environmental hazards	Not classified.	Not classified.
14.6	Special precautions for user	See Section: 2	
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	Not applicable.
14.8	Additional Information	None.	

SECTION 15: REGULATORY INFORMATION

- | | | |
|--------|---|----------------|
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| 15.1.1 | EU regulations | |
| | Authorisations and/or Restrictions On Use | None. |
| 15.1.2 | National regulations | |
| | Wassergefährdungsklasse (Germany) | Not classified |
| 15.2 | Chemical Safety Assessment | None. |

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

References: Safety Data Sheets for ingoing ingredients. Existing ECHA registration(s) for: Ammonium Bromide (CAS No.: 12124-97-9). This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

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