

# Safety Data Sheet

## Flex-Flash UN

Sheet No: M202FR Issued: 24/06/16  
Revision: 1 1<sup>st</sup> Issue: 24/06/16  
Pages: 1 of 7

### 1. Identification of the substrate/preparation and of the company/undertaking

#### 1.1. Product identifier

Trade name/designation : Flex-Flash UN

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Main use category : Industrial Applications  
Use of the substance/mixture : Roofing

#### 1.3. Manufacturer/Supplier

Supplier:  
Alumasc Exterior Building Products Ltd  
White House Works, Bold Road, Sutton, St Helens, Merseyside, WA9 4JG. United Kingdom  
Tel: +44 (0)1744 648400 E-mail: roofing@alumasc-exteriors.co.uk

#### 1.4. Emergency telephone number

Emergency telephone : Alumasc 01744 648 400  
(Mon-Thur - 08.30-17.00 Fri - 08.30-16.00)

### 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous as shipped is minimal. However, some vapours may be released upon heating and the end user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection etc.) to protect employees from exposure

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### POTENTIAL HEALTH EFFECTS

**Routes of Exposure:** Inhalation, Ingestion, Skin Contact

#### Acute Exposure

Inhalation: Particulates, like other inert materials can be mechanically irritating.  
Ingestion: May be harmful if swallowed.  
Eyes: Particulates, like other inert materials can be mechanically irritating.  
Skin: Experience shows no unusual dermatitis hazard from routine handling.

**Chronic Exposure:** Refer to section 11 for Toxicological Information

#### Medical Conditions

**Aggravated by Exposure:** None known

# Safety Data Sheet

## Flex-Flash UN

Sheet No: M202FR Issued: 24/06/16

Revision: 1 1<sup>st</sup> Issue: 24/06/16

Pages: 2 of 7

### 3. Composition and information about the components

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Components	CAS-No	Weight %
Carbon Black	1333-86-4	4.0 - 6.0
Zinc Oxide	1314-13-2	1.0 - 2.0
Mercaptobenzothiazyl disulphide	120-78-5	0.1 - 0.2

### 4. First-aid measures

#### 4.1 Description of first aid measures

Inhalation:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Where symptoms persist or in all cases of doubt seek medical advice.
Ingestion:	Do not induce vomiting without medical advice. Where symptoms persist or in all cases of doubt seek medical advice.
Eyes:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.
Skin:	Wash off with soap and plenty of water. If skin irritation persists seek medical attention.

### 5. Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray or mist

Unsuitable extinguishing media : Do not use water jet.

Flash point: Not applicable

Flammable Limits

Upper explosion limit: Not applicable

# Safety Data Sheet

## Flex-Flash UN

Sheet No: M202FR Issued: 24/06/16  
Revision: 1 1<sup>st</sup> Issue: 24/06/16  
Pages: 3 of 7

Lower explosion limit:	Not applicable
Autoignition temperature:	Not applicable
Suitable extinguishing media:	Water spray, Dry powder, Foam, Carbon Dioxide (CO <sub>2</sub> ).
Special Fire Fighting Procedures:	Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards:	Carbon Dioxide (CO <sub>2</sub> ), Carbon Monoxide (CO), oxides of Nitrogen (NO <sub>x</sub> ), other hazardous materials, and smoke are all possible.

### 6. Accidental release measures

<u>6.1 Personal precautions:</u>	Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
<u>6.2 Environmental precautions:</u>	Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
<u>6.2 Methods for cleaning up:</u>	Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

### 7. Handling and storage

<u>7.1 Precautions for safe handling</u>	Take measures to prevent the build-up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.
<u>7.2 Conditions for safe storage</u>	Store in the original packaging to prevent contamination, preferably in a cool dark place.

### 8. Exposure controls/personal protection

Respiratory protection: No personal respiratory protective equipment normally required when handling the product itself. See 'Engineering Measures' section below for precautions to be taken when heating or processing this material.

Eye/Face protection:	Safety glasses with side-shields
Hand protection:	Protective gloves
Skin and body protection:	Long sleeved clothing

# Safety Data Sheet

## Flex-Flash UN

Sheet No: M202FR Issued: 24/06/16

Revision: 1 1<sup>st</sup> Issue: 24/06/16

Pages: 4 of 7

Additional protective:

Safety shoes

General Hygiene:

Handle in accordance with good industrial hygiene and safety practice. Considerations Wash hands before breaks and at the end of the day.

Engineering measures:

Heat only in areas with appropriate exhaust ventilation. Adequate ventilation and /or appropriate respiratory protection may also be necessary to minimize employee exposure to processing vapours.

Components	Value	Exposure Time	Exposure Type	List
Carbon Black	3.5mg/m <sup>3</sup>	Long Term Value	Inhalable Dust	WEL
	7.0mg/m <sup>3</sup>	Short Term Value	Inhalable Dust	WEL
Zinc Oxide	5mg/m <sup>3</sup>	Time Weighted Average (8-hr TWA)	Respirable Dust	OES
Mercaptobenzothiazyl disulphide	10mg/m <sup>3</sup>	Time Weighted Average (8-hr TWA)	Respirable Dust	OES

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Appearance	: Sheet, Strip, Slab
Physical state	: Solid
Colour	: Black
Odour	: Characteristic rubber odour
pH	: Not applicable
Melting point/range	: Not determined
Boiling point	: Not determined
Evaporation rate	: Not applicable
Specific Gravity	: Not determined
Bulk density	: Not established
Vapour pressure	: Not applicable
Vapour density	: Not applicable
Water solubility	: Insoluble

# Safety Data Sheet

## Flex-Flash UN

Sheet No: M202FR Issued: 24/06/16  
 Revision: 1 1<sup>st</sup> Issue: 24/06/16  
 Pages: 5 of 7

### 10. Stability and reactivity

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

#### 10.2 Chemical stability

Stable

#### 10.3 Hazardous Polymerisation

Will not occur

#### 10.4 Conditions to avoid

Keep away from oxidizing agents and open flame. To avoid thermal decomposition do not overheat. Avoid any contact with moisture/water.

#### 10.5 Incompatible materials

Incompatible with strong acids and oxidizing agents

#### 10.6 Hazardous decomposition

Carbon Dioxide (CO<sub>2</sub>), Carbon Monoxide (CO), oxides of Nitrogen products (NO<sub>x</sub>), other hazardous materials, and smoke are all possible

### 11. Toxicological information

#### 11.1 Information on toxicological effects

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture

#### Acute toxicity

This product contains the following components which in their pure form have the following characteristics.

CAS-No	Chemical Name	Effect	Target Organ
1333-86-4	Carbon Black	Systemic effects	Eyes, Respiratory System
1314-13-2	Zinc Oxide	Systemic effects	Respiratory System
120-78-5	Mercaptobenzothiazyl disulphide	Systemic effects	May cause sensitization by skin contact

#### LC50/LD50

This product contains the following components which in their pure form have the following toxicity data:

CAS-No	Chemical Name	Route	Value	Species
1314-13-2	Zinc Oxide	IPR LD50	240mg/kg	Rat
		ORL LD50	7950mg/kg	Mouse

# Safety Data Sheet

## Flex-Flash UN

Sheet No: M202FR Issued: 24/06/16

Revision: 1 1<sup>st</sup> Issue: 24/06/16

Pages: 6 of 7

120-78-5	Mercaptobenzothiazyl disulphide	ORL LD50	>7940mg/kg	Rat
		SKN LD50	>7940mg/kg	Rabbit

### Additional Health Hazard Information

Carbon Black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the reference rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that 'There is sufficient evidence in experimental animals for the carcinogenicity of Carbon black'. Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity to humans, IARC's overall evaluation is that 'Carbon Black is possibly carcinogenic to humans (Group 2B). The IARC 2B listing only pertains to airborne, unbound Carbon Black particles of respirable size. Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on Carbon Black recommends that only Carbon Black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be suspect carcinogens.

## 12. Ecological information

<u>12.1 Environmental Toxicity:</u>	Chemicals are not readily available as they are bound within the polymer matrix.
<u>12.2 Persistence and degradability:</u>	Not readily biodegradable.
<u>12.3 Bioaccumulation Potential:</u>	Chemicals are not readily available as they are bound within the polymer matrix.
<u>12.4 Additional Advice:</u>	Not applicable

## 13. Disposal considerations

### 13.1 Waste treatment methods

Product:	Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
Contaminated packaging:	Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations

# Safety Data Sheet

## Flex-Flash UN

Sheet No: M202FR Issued: 24/06/16  
 Revision: 1 1<sup>st</sup> Issue: 24/06/16  
 Pages: 7 of 7

### 14. Transport information

U.S. DOT Classification: Refer to specific regulation.  
 ICAO/IATA (Air): Refer to specific regulation.  
 IMO/IMDG (Maritime): Refer to specific regulation

#### Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### 15. Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Title III Section 313 Toxic Chemicals: Unless specific chemicals are identified under this section, this product is not applicable under this regulation

Chemical Name	CAS-No	Weight %
Zinc Oxide	1314-13-2	1.0 – 2.0
Mercaptobenzothiazyl disulphide	120-78-5	0.1 – 0.2

### 16. Other information

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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