

### SECTION 1: Identification of the substance and of the company

- |   |   |
|---|---|
| 1.1 Product identifier: Trade name  |    |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against | <p>Uses: Neutralising, containing and adsorbing liquid and gaseous chemical spills.<br/>Advised against: Biological, nuclear, heavy metals, solid waste spills.</p> |
| 1.3. Details of the supplier of the safety data sheet                             | <p><b>Specialist Response Solutions Ltd,</b><br/>86-90 Paul Street, London, EC2A 4NE<br/>+44 (0) 203 095 3978</p>   |
| 1.4. Emergency telephone number   | +44 (0) 203 095 3978  |

### SECTION 2: Hazards identification

- |   |   |
|---|---|
| 2.1. Classification of the substance or mixture | <ul style="list-style-type: none"> <li>• Acute toxicity oral: GHS Category 5 - May be harmful if swallowed (H303)</li> <li>• Acute toxicity dermal: GHS Category 5 - May be harmful in contact with skin (H313)</li> <li>• Acute toxicity inhalation GHS category 5 - May be harmful if inhaled (H333)</li> <li>• Serious eye irritation: GHS Category 2B - Causes eye irritation (H320)</li> <li>• Carcinogen: Not applicable</li> </ul> |
| 2.2. Label elements                             |  WARNING   |
| 2.3. Other hazards:                             | None  |

### SECTION 3: Composition/information on ingredients

- | 3.1. Substances         | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #4F81BD; color: white;"> <th></th> <th>EC List No:</th> <th>CAS No:</th> </tr> </thead> <tbody> <tr> <td><b>Titanium dioxide</b></td> <td>236-675-5</td> <td>13463-67-7</td> </tr> <tr> <td><b>Magnesium oxide</b></td> <td>215-171-9</td> <td>1309-48-4</td> </tr> </tbody> </table> |            | EC List No: | CAS No: | <b>Titanium dioxide</b> | 236-675-5 | 13463-67-7 | <b>Magnesium oxide</b> | 215-171-9 | 1309-48-4 |
|-------------------------|---|------------|-------------|---------|-------------------------|-----------|------------|------------------------|-----------|-----------|
|                         | EC List No:   | CAS No:    |             |         |                         |           |            |                        |           |           |
| <b>Titanium dioxide</b> | 236-675-5   | 13463-67-7 |             |         |                         |           |            |                        |           |           |
| <b>Magnesium oxide</b>  | 215-171-9   | 1309-48-4  |             |         |                         |           |            |                        |           |           |
| 3.2 Mixtures            | A proprietary mixture of the earth minerals above   |            |             |         |                         |           |            |                        |           |           |

### SECTION 4: First aid measures

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|--|--|
| 4.1. Description of first aid measures | <p><b>Skin:</b> Flush with copious amounts of water for at least 15 minutes, remove contaminated clothing and shoes.</p> <p><b>Inhalation:</b> Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.</p> |
|--|--|

<p>4.2. Most important symptoms and effects, both acute and delayed</p> <p>4.3. Indication of any immediate medical attention and special treatment needed</p>	<p><b>Eyes:</b> Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingertips. Seek medical attention.</p> <p><b>Ingestion:</b> Wash out mouth with water provided that person is conscious. Seek medical attention.</p> <p>For internal contact via wounds, flush wound with water.</p> <p>May cause physical eye irritation. May cause skin irritation.</p> <p>May be irritating to mucous membranes and upper respiratory tract. May cause physical irritation of the skin and eyes, with redness and swelling, cough, and sneezing.</p> <p>Acute effects include irritation of mucous membranes and upper respiratory tract. Exposure may cause diarrhoea.</p>
<p><b>SECTION 5: Firefighting measures</b></p>	
<p>5.1. Extinguishing media</p> <p>5.2. Special hazards arising from the substance or mixture</p> <p>5.3. Advice for firefighters</p>	<p>The formulation may be exposed to water, carbon dioxide, dry chemical, and foam-extinguishing agents as necessary during fire-fighting operations.</p> <p>Avoid creating dust.</p> <p>FAST-ACT is not flammable, combustible, or explosive. May emit toxic fumes at temperatures greater than 2800°C.</p>
<p><b>SECTION 6: Accidental release measures</b></p>	
<p>6.1 Personal precautions, protective equipment and emergency procedures.</p> <p>6.2 Environmental precautions</p> <p>6.3 Methods and material for containment and cleaning up</p>	<p>Avoid creating dust. Avoid contact with eyes and skin. Use personal protection recommended in Section 8. Evacuate personnel to safe areas. Approach area from upwind. Use personal protection recommended in Section 8.</p> <p>Do not flush into surface water or sanitary sewer system.</p> <p>Prevent further leakage or spillage if safe to do so. Prevent dust cloud. Cover powder spill with plastic sheet or tarp to minimise spreading.</p> <p>Take up mechanically, placing in appropriate containers for disposal</p> <p>Clean contaminated objects and areas thoroughly observing environmental regulations</p>

## SECTION 7: Handling and storage

7.1. Precautions for safe handling	Store in sealed containers to avoid slow reactions with carbon dioxide and moisture in air
7.2. Conditions for safe storage, including any incompatibilities	Exothermic reaction with strong acids and oxidizing agents, phosphorus pentachloride, trichlorides, and chlorine. Will absorb CO <sub>2</sub> from air.
7.3. Specific end use(s)	No further relevant information available.

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters	<p>GESTIS Occupational Exposure (OEL) Limits:</p> <p><b>Titanium dioxide (TiO<sub>2</sub>):</b> 10 mg/m<sup>3</sup> inhalable aerosol (UK)</p> <p><b>Magnesium oxide (MgO):</b> 10 mg/m<sup>3</sup> inhalable aerosol (UK)</p>
8.2. Exposure controls	<p><b>Engineering controls:</b> The mechanical ventilation of work areas is recommended when prolonged exposure to dust may be present. Workers should wash exposed skin thoroughly after any possible exposure. Provide eyewash stations.</p> <p><b>Respiratory Protection:</b> None required under normal use conditions. Use approved respirators where prolonged exposure is expected or exposure above the OEL.</p> <p><b>Skin Protection:</b> Wear suitable protective gloves and clothing.</p> <p><b>Eye Protection:</b> Wear appropriate protective glasses or chemical safety goggles.</p> <p><b>Other Protective Equipment:</b> None.</p>

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	Colour/Appearance:	White Powder
	Odour:	Odourless
	Odour Threshold:	Not determined
	Molecular Weight:	Not determined
	Boiling Point:	Not determined
	Melting Point:	Not determined
	Flash Point:	Not determined
	Evaporation Rate:	Not determined
	Upper/Lower Flammability:	Not determined
	Flammability:	Not flammable.
	Specific Gravity:	Not determined
	Vapour Pressure:	Not determined
Vapour Density:	Not determined	
Relative Density:	Not determined	

Solubility in water:	Not determined
pH:	11.5 (in solution of water)
Partition coefficient:	Not determined
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Viscosity:	Not determined
Bulk Density:	0.7 g/cc
Surface Area:	≥ 300 m <sup>2</sup> /g
Typical Moisture Content:	≤ 2.5%
Typical Loss on Ignition:	≤ 7%
Particle Size:	5 μm (nominal)

Trade name: **FAST-ACT**

### SECTION 10: Stability and reactivity

10.1. Reactivity	Reacts to neutralise, adsorb or contain acids, bases and organic compounds
10.2. Chemical stability	Stable under normal temperature and pressure.
10.3. Possibility of hazardous reactions	None under normal use
10.4. Conditions to avoid	Dust formation and exothermic reaction with strong acid and oxidizing agents, phosphorus pentachloride, trichlorides, and chlorine. Will absorb CO <sub>2</sub> from air.
10.5. Incompatible materials	None known
10.6. Hazardous decomposition products	None under normal use conditions

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

#### Likely Routes of Exposure:

Eye and skin contact, inhalation.  
Effects: Acute Health Hazards: May cause physical irritation of the skin and eyes, with redness and swelling, cough, and sneezing.

#### Measures of Toxicity:

Acute Oral:	LD50 > 2 g/kg
Acute Dermal:	LD50 > 5 g/kg
Inhalation (TWA):	825 mg/kg, non-toxic
Acute Eye Irritation:	EPA Category III, "slightly irritating"
Skin Sensitizer:	Non-sensitizer
Teratogen:	No
Mutagen:	No

**Symptoms:**

Eye Contact:

May cause physical eye irritation. • Skin Contact: May cause skin irritation.

Inhalation:

May be irritating to mucous membranes and upper respiratory tract.

Carcinogen Status:

- OSHA: No
- NTP: No
- ACGIH (TiO<sub>2</sub>): Group 3: Not classifiable as human carcinogen
- IARC: 2B. Possible carcinogen (tumorgen) based on animal data. No human data found at this time and IARC so far has found inadequate evidence for carcinogenicity in humans

**SECTION 12: Ecological information**

12.1. Toxicity

Low acute aquatic toxicity

12.2. Persistence and degradability

Possibly hazardous short-term degradation products are not likely. However, long term degradation products may arise

12.3. Bioaccumulative potential

The product itself and its products of degradation are not toxic nor do they bioaccumulate

12.4. Mobility in soil

Not mobile. Insoluble in water

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

No information available

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

FAST-ACT may be diluted in large amounts of water. Hydrolysis may generate heat.

Not a hazardous waste. In some cases where FAST-ACT neutralises the chemical spill, the material cleaned up will no longer be considered hazardous waste.

Disposal should be in accordance with applicable local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used

#### SECTION 14: Transport information

The chemicals formulated in FAST-ACT are not subject to the hazardous chemical shipping regulations.

**ADR/RID:** Not dangerous goods  
**IMO/IMDG:** Not dangerous goods  
**ICAO and IATA:** Not dangerous goods

#### SECTION 15: Regulatory information

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

EU and national regulations will apply including:  
REACH – European Regulation 1907/2006  
CLP – European Regulation 1272/2008

15.2. Chemical safety assessment

No chemical safety assessment is required.

#### SECTION 16: Other information

This Safety Data Sheet has been prepared to meet the EU Regulations:

- a. No. 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures Regulations (CLP)
- b. No. 830/2015 on Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations (REACH)

Importers of the FAST-ACT may have their own registration obligations under Regulation (EC) 830/2015 (REACH).

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

