

## Section 1. Identification

### 1.1 Product Identifier 2745

Product Name TYTRONICS FPA-800 SULPHIDE MONITOR REAGENT No. 2

CAS Number Mixture

REACH Registration No A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

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

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

### 1.3 Supplier Vickers Laboratories Ltd



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### 1.4 Emergency Telephone (08:00-16:30) +44(0) 113 2362811 (24hr) 112 (Have this document to hand)

## Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

#### Classification according to regulation 1272/2008/EC

Corrosive to metals, category 1 H290: May be corrosive to metals.  
Acute toxicity, category 4 (oral) H302: Harmful if swallowed.  
Skin corrosion/irritation, category 2 H315: Causes skin irritation.  
Serious eye damage/irritation, category 1 H318: Causes serious eye damage.

### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Hazard Statements May be corrosive to metals. Harmful if swallowed. Causes skin irritation. Causes serious eye damage.

Precautionary Statements Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

## Section 3. Composition

### 3.2 Mixtures

| Component         | CAS No. | EEC No. | REACH No. | Conc w/w | CLP Classification (1272/2008/CE)                         |
|-------------------|---------|---------|-----------|----------|---|
| Iron salts, as Fe |         |         |           | >25%     | Met. Corr. 1, Acute Tox. 4 (O), Skin Irrit. 2, Eye Dam. 1 |

## Section 4. First Aid

### 4.1 Description of first aid measures

|                                      |  |
|--------------------------------------|--|
| Eyes                                 | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.               |
| Skin                                 | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION. |
| Inhalation                           | Remove from exposure.  |
| Ingestion                            | Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.  |
| Personal protection for first aiders | Wear protective gloves / eye protection.   |

### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

|                     |  |
|---------------------|--|
| Extinguishing Media | Consider what other flammable materials are present and act accordingly. |
| Unsuitable Media    | Nothing specified.   |

### 5.2 Special hazards arising from the substance or mixture

|         |                                   |
|---------|-----------------------------------|
| Hazards | Presents no specific fire danger. |
|---------|-----------------------------------|

### 5.3 Advice for firefighters

|                         |   |
|-------------------------|---|
| Advice for firefighters | Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. |
|-------------------------|---|

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

|                     |   |
|---------------------|---|
| Personal Protection | Use approved personal protective equipment. |
|---------------------|---|

### 6.2 Environmental precautions

|               |  |
|---------------|--|
| Environmental | Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs. |
|---------------|--|

### 6.3 Methods and material for containment and cleaning up

|                |  |
|----------------|--|
| Major Spillage | Contain and absorb on inert material. Transfer absorbent to container for removal. Wash area down with copious amounts of water. |
| Minor Spillage | Wash area down with copious amounts of water.  |

## 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

No specific precautions.

### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage .

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

| Component         | CAS No | Concentration | Workplace Exposure Limits |                         |
|-------------------|--------|---------------|---------------------------|-------------------------|
|                   |        |               | Long Term (8hr TWA)       | Short Term 15min period |
| Iron salts, as Fe |        | >25%          | -                         | -                       |

Exposure data source(s) No occupational exposure data currently available.

### 8.2 Exposure controls

|                        |  |
|------------------------|--|
| Respiratory Protection | Presents no significant inhalation health hazard.  |
| Hand Protection        | Use nitrile gloves or PVC gauntlets.   |
| Eye Protection         | Use tightly fitting chemical splash proof glasses or goggles.  |
| Skin Protection        | Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn. |
| Special Hazards        | No special precautions required.   |

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

|                       |                              |
|-----------------------|------------------------------|
| Appearance            | Red-brown liquid.            |
| Odour                 | Odourless.                   |
| pH                    | 2 @ 20°C                     |
| Boiling Point         | Not available                |
| Melting Point         | Not applicable               |
| Flash Point           | Not applicable               |
| Upper Flammable Limit | Not applicable               |
| Lower Flammable Limit | Not applicable               |
| Auto Ignition         | Not applicable               |
| Explosive Properties  | No.                          |
| Oxidising Properties  | No.                          |
| Vapour Pressure       | Not applicable               |
| Relative Density      | 1.1920                       |
| Water Solubility      | Completely soluble in water. |

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

**10.2** Chemical Stability Stable under normal conditions

|             |                                    |   |
|-------------|------------------------------------|---|
| <b>10.3</b> | Possibility of hazardous reactions | No data available.  |
| <b>10.4</b> | Conditions to Avoid                | No specific conditions.   |
| <b>10.5</b> | Incompatible Materials             | Strong oxidising agents. Corrosive to metals, category 1.             |
| <b>10.6</b> | Hazardous Decomposition Products   | Will decompose to emit toxic and irritant fumes of hydrogen chloride. |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |  |
|----------------------|--|
| Eyes                 | Causes serious eye damage.                           |
| Skin                 | The liquid will be irritating to the skin.           |
| LD50 Skin            | Not available  |
| Ingestion            | Ingestion will cause gastrointestinal irritation.    |
| LD50 Oral            | Not available  |
| Inhalation           | Presents no significant health hazard by inhalation. |
| LD50 Inhalation      | Not available  |
| TCLo                 | Not available  |
| Carcinogenicity      | Not considered to be a carcinogen.                   |
| Mutagenicity         | Not considered to be a mutagen.                      |
| Reproductive Effects | None identified.                                     |

## Section 12. Ecological

|             |                                  |   |
|-------------|----------------------------------|---|
| <b>12.1</b> | Toxicity                         | Small amounts present no specific environmental hazard. |
|             | LC50 Algal                       | Not available   |
|             | LC50 Crustacea                   | Not available   |
|             | LC50 Fish                        | Not available   |
| <b>12.2</b> | Persistence and degradability    | No data available.                                      |
| <b>12.3</b> | Bioaccumulative potential        | No data available.                                      |
| <b>12.4</b> | Mobility in soil                 | No data available.                                      |
| <b>12.5</b> | Results of PBT & vPvB assessment | Assessment not required.                                |
| <b>12.6</b> | Other adverse effects            | None known at present.                                  |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |  |
|------------------------|--|
| Disposal Methods       | Flush to drain. Larger quantities should be sent for disposal by an authorised waste disposer. |
| Contaminated Packaging | Wash out containers with water.  |

## Section 14. Transport Information

|  |                                  |
|--|----------------------------------|
| <b>14.1 UN Number</b>                    | 2582                             |
| <b>14.2 Proper Shipping Name</b>         | Ferric chloride solution         |
| <b>14.3 Transport classes</b>            |                                  |
| UN classification                        | 8                                |
| Subsidiary hazard(s)                     | None                             |
| Transport category                       | 3                                |
| ADR Hazard ID                            | 80                               |
| Tunnel Restriction Code                  | E                                |
| <b>14.4 Packing Group</b>                | III                              |
| <b>14.5 Environment hazards</b>          | See section 12.                  |
| <b>14.6 Special precautions for user</b> | No special precautions required. |
| <b>14.7 Transport in bulk</b>            | Not transported in bulk.         |



## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Corrosive to metals, category 1; Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 1

Signal word Danger

Hazard Pictograms



Hazard Statements H290, H302, H315, H318  
May be corrosive to metals. Harmful if swallowed. Causes skin irritation. Causes serious eye damage.

Precautionary Statements P280, P264, P305+P351+P338, P301+P312, P330  
Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.2 (Supersedes revision 1.1)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 03 February 2023

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