

## Section 1. Identification

### 1.1 Product Identifier

2114

Product Name

DITHIZONE pure

CAS Number

60-10-6

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.

Molecular Formula

$C_6H_5N_2NCSNHNC_6H_5 = 256.32$

### 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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Pudsey  
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LS28 6QW  
UNITED KINGDOM

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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

Skin corrosion/irritation, category 2

Serious eye damage/irritation, category 2

Spec target organ tox - single, category 3

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

### 2.2 Label elements

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

Signal word

Warning

Hazard Pictograms



|                          |  |
|--------------------------|--|
| Hazard Statements        | Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.   |
| Precautionary Statements | Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. Do not breathe dust. Use only outdoors or in a well-ventilated area. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. |

## Section 3. Composition

### 3.1 Substances

| Component | CAS No. | EEC No.   | REACH No. | Conc w/w | CLP Classification (1272/2008/CE)          |
|-----------|---------|-----------|-----------|----------|--|
| Dithizone | 60-10-6 | 200-454-1 |           | >98%     | Skin Irrit. 2, Eye Irrit. 2, STOT SE 3 (I) |

## 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. 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. Do not induce vomiting. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.    |
| 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 | May evolve toxic fumes if involved in a fire. |
|---------|---|

### 5.3 Advice for firefighters

|                         |  |
|-------------------------|--|
| Advice for firefighters | Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. |
|-------------------------|--|

## Section 6. Accidental Release Measures

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

|                     |  |
|---------------------|--|
| Personal Protection | Avoid breathing dust. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so. |
|---------------------|--|

### 6.2 Environmental precautions

|               |  |
|---------------|--|
| Environmental | 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 | Shovel/sweep up into 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

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

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

Well ventilated, cool, dry storage . Protect against moisture to prevent decomposition and corrosion.

### 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 |
| Dithizone | 60-10-6 | >98%          | -                         | -                       |

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

### 8.2 Exposure controls

|                        |  |
|------------------------|--|
| Respiratory Protection | If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.                              |
| Hand Protection        | Wear gloves.   |
| 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            | Bluish-black crystalline powder. |
| Odour                 | No specific odour.               |
| pH                    | Not applicable                   |
| Boiling Point         | Not available                    |
| Melting Point         | 168°C                            |
| 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      | Not available                    |
| Water Solubility      | Insoluble in water.              |

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

10.1 Reactivity No data available.

|  |  |
|--|--|
| <b>10.2</b> 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. Alkalis.  |
| <b>10.6</b> Hazardous Decomposition Products   | Decomposes to evolve highly toxic fumes of oxides of nitrogen and sulphur. |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |   |
|----------------------|---|
| Eyes                 | Contact with the solid or dust will be irritating to the eyes but unlikely to cause serious injury. |
| Skin                 | Contact with the solid or dust will be irritating to the skin.                                      |
| LD50 Skin            | Not available   |
| Ingestion            | Ingestion of large amounts may produce gastrointestinal irritation.                                 |
| LD50 Oral            | Not available   |
| Inhalation           | Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract.         |
| 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                         | No specific information. |
| 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       | Dispose of to a licensed land fill site.                       |
| Contaminated Packaging | Wash out containers with water. Use a licensed waste disposer. |

## Section 14. Transport Information

|  |                                  |
|--|----------------------------------|
| <b>14.1 UN Number</b>                    | Non-restricted                   |
| <b>14.2 Proper Shipping Name</b>         | Non-restricted                   |
| <b>14.3 Transport classes</b>            |                                  |
| UN classification                        | None                             |
| Subsidiary hazard(s)                     | None                             |
| Transport category                       | None                             |
| ADR Hazard ID                            | Non-restricted                   |
| Tunnel Restriction Code                  | Non-restricted                   |
| <b>14.4 Packing Group</b>                | None                             |
| <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 Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2; Spec target organ tox - single, category 3

Signal word Warning

Hazard Pictograms



Hazard Statements H315, H319, H335  
Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Precautionary Statements P264, P280, P260, P271, P332+P313, P337+P313  
Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. Do not breathe dust. Use only outdoors or in a well-ventilated area. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

### 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.

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