

**Section 1. Identification****1.1 Product Identifier**

CHE3658

Product Name

SUDAN III SOLUTION (alcoholic) 100ml.

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**

Scientific Laboratory Supplies

Unit 6, Foresters Avenue  
Fairham Business Park  
Fairham  
Nottingham  
NG11 2AF  
UNITED KINGDOM

Phone

0115 9821111

Fax

0115 9825275

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sales@scientific-labs.com

**1.4 Emergency Telephone**(08:00-17:00) 0115 9821111  
(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**

Flammable liquid, category 2

Serious eye damage/irritation, category 2

Spec target organ tox - single, category 3

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

**2.2 Label elements****Labelling according to regulation 1272/2008/EC**

Signal word

Danger

Hazard Pictograms



Hazard Statements

Highly flammable liquid and vapour. Causes serious eye irritation. May cause respiratory irritation.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Wear protective gloves / protective clothing / eye protection. Store in a well ventilated place. Keep cool. Avoid breathing dust / fume / gas / mist / vapours / spray. Use only outdoors or in a well-ventilated area.

## Section 3. Composition

### 3.2 Mixtures

| Component | CAS No. | EEC No.   | REACH No.             | Conc w/w | CLP Classification (1272/2008/CE)   |
|-----------|---------|-----------|-----------------------|----------|---|
| Acetone   | 67-64-1 | 200-662-2 | 01-2119471330-49-XXXX | 50%      | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 (D)                                     |
| Ethanol   | 64-17-5 | 200-578-6 | 01-2119457610-43-XXXX | 34.2%    | Flam. Liq. 2, Eye Irrit. 2  |
| Methanol  | 67-56-1 | 200-659-6 | 01-2119433307-44-XXXX | 1.8%     | Flam. Liq. 2, Acute Tox. 3 (O), Acute Tox. 3 (D), Acute Tox. 3 (I), STOT SE 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. OBTAIN MEDICAL ATTENTION.   |
| Skin                                 | Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-use. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.   |
| Inhalation                           | Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.                        |
| Ingestion                            | If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. 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 | Alcohol resistant foam, dry powder, carbon dioxide or vaporising liquid. Use water spray to keep fire exposed containers cool. |
| Unsuitable Media    | Do not use water jet.  |

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

|         |                                    |
|---------|------------------------------------|
| Hazards | Vapour-air mixtures are explosive. |
|---------|------------------------------------|

### 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 | Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so. Beware : vapour is heavier than air and will tend to accumulate at low spots. |
|---------------------|---|

### 6.2 Environmental precautions

|               |  |
|---------------|--|
| Environmental | Keep 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 salvage container for removal. Wash area down with copious amounts of water.   |
| Minor Spillage | Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste. 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

All transfer systems should be earthed to prevent accumulation of static electricity. Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

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

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

### 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 |            |               |
| Acetone   | 67-64-1 | 50%           | 500.0 ppm                 | 1210.0 mg/m-3           | 1500.0 ppm | 3620.0 mg/m-3 |
| Ethanol   | 64-17-5 | 34.2%         | 1000.0 ppm                | 1920.0 mg/m-3           | -          | -             |
| Methanol  | 67-56-1 | 1.8%          | 200.0 ppm                 | 266.0 mg/m-3            | 250.0 ppm  | 333.0 mg/m-3  |

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

### 8.2 Exposure controls

|                        |   |
|------------------------|---|
| Respiratory Protection | Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus. |
| Hand Protection        | Use solvent resistant 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            | Clear red to dark red solution. |
| Odour                 | Pungent.                        |
| pH                    | Not applicable                  |
| Boiling Point         | 56.4°C                          |
| Melting Point         | -94.7°C                         |
| Flash Point           | 23°C (Closed cup)               |
| Upper Flammable Limit | 12.8%                           |
| Lower Flammable Limit | 2.6%                            |
| Auto Ignition         | 465°C                           |
| Explosive Properties  | Severe in confined spaces.      |

|                      |                              |
|----------------------|------------------------------|
| Oxidising Properties | No.                          |
| Vapour Pressure      | 185mmHg @ 20°C               |
| Relative Density     | 0.8300                       |
| 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   |
| 10.3 Possibility of hazardous reactions | No data available.   |
| 10.4 Conditions to Avoid                | Hot surfaces, naked flames or other sources of ignition.                         |
| 10.5 Incompatible Materials             | Strong oxidising agents.   |
| 10.6 Hazardous Decomposition Products   | None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide. |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |   |
|----------------------|---|
| Eyes                 | Both the vapour and liquid will, act as an eye irritant. Repeated exposure to the vapours can lead to reversible corneal changes and conjunctivitis   |
| Skin                 | Repeated or prolonged contact may defat the skin producing irritation and dermatitis. Skin penetration is possible. May cause skin sensitisation.   |
| LD50 Skin            | Not available   |
| Ingestion            | The liquid causes damage to stomach and intestinal linings.   |
| LD50 Oral            | Not available   |
| Inhalation           | Exposure to vapour concentrations above the occupational exposure limits will cause narcosis. Prolonged exposure to vapour concentrations above the occupational exposure limits will cause headache, nausea, vomiting and irritation of the mucous membranes. High concentrations of vapour may produce central nervous system depression and unconsciousness. |
| LD50 Inhalation      | Not available   |
| TCLo                 | Not available   |
| Carcinogenicity      | Not considered to be a carcinogen.  |
| Mutagenicity         | May be a mutagen.   |
| Reproductive Effects | It is considerably embryotoxic, but only weakly teratogenic with a low incidence of malformations.  |

## Section 12. Ecological

|                                       |   |
|---------------------------------------|---|
| 12.1 Toxicity                         | Moderately toxic to mammals, fish and bacteria. |
| LC50 Algal                            | Not available                                   |
| LC50 Crustacea                        | Not available                                   |
| LC50 Fish                             | Not available                                   |
| 12.2 Persistence and degradability    | No data available.                              |
| 12.3 Bioaccumulative potential        | No data available.                              |
| 12.4 Mobility in soil                 | No data available.                              |
| 12.5 Results of PBT & vPvB assessment | Assessment not required.                        |
| 12.6 Other adverse effects            | None known at present.                          |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |  |
|------------------------|--|
| Disposal Methods       | Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of into water courses or sewerage systems due to high risk of explosion. |
| Contaminated Packaging | Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.   |

## Section 14. Transport Information

|                                   |   |
|-----------------------------------|---|
| 14.1 UN Number                    | 1993  |
| 14.2 Proper Shipping Name         | Flammable liquid, N.O.S. (Sudan III Solution) |
| 14.3 Transport classes            |   |
| UN classification                 | 3   |
| Subsidiary hazard(s)              | None  |
| Transport category                | 3   |
| ADR Hazard ID                     | 30  |
| Tunnel Restriction Code           | D/E   |
| 14.4 Packing Group                | III   |
| 14.5 Environment hazards          | See section 12.                               |
| 14.6 Special precautions for user | No special precautions required.              |
| 14.7 Transport in bulk            | 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 | Flammable liquid, category 2; Serious eye damage/irritation, category 2; Spec target organ tox - single, category 3 |
| Signal word    | Danger  |

#### Hazard Pictograms



|   |   |
|---|---|
| Hazard Statements                                   | H225, H319, H335<br>Highly flammable liquid and vapour. Causes serious eye irritation. May cause respiratory irritation.  |
| Hazard Statements (Packs of 100ml/g or less)        | H225, H319, H335, H336<br>Highly flammable liquid and vapour. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.   |
| Precautionary Statements                            | P210, P240, P280, P403+P235, P261, P271<br>Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Wear protective gloves / protective clothing / eye protection. Store in a well ventilated place. Keep cool. Avoid breathing dust / fume / gas / mist / vapours / spray. Use only outdoors or in a well-ventilated area. |
| Precautionary Statements (Packs of 100ml/g or less) | P280, P210<br>Wear protective gloves / protective clothing / eye protection. Keep away from heat / sparks/open flames/hot surfaces - No smoking.  |

### 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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