WF Education Group - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.0 (Replaces revision 1.1 of 16 April 2021)

Revision date: Date printed: 19 April 2021 07 June 2021

CA1884

Section 1. Identification

| l | Product Identifier | CA1884 |
|---|-------------------------------------|--|
| | Product Name | CALCIUM NITRATE 4H2O pure 500g. |
| | CAS Number REACH Registration No | 13477-34-4 01-2119495093-35-XXXX |
| | Molecular Formula | Ca(NO ₃) ₂ .4H ₃ O =236.15 |

1.2 Relevent identified uses of the substance or mixure & uses advised against

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

1.3 Supplier

1.1

WF Education Group



Phoenix House Battlefield Enterprise Park Stafford Drive Shrewsbury Shropshire SY1 3FE UNITED KINGDOM

| Phone | +44(0)1743 812200 |
|---------|------------------------|
| Email | sales@wf-education.com |
| Website | www.timstar.co.uk |
| | |

1.4 Emergency Telephone

(08:30-17:00) +44(0)1743 812200 (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

Oxidising solid, category 3 Acute toxicity, category 4 (oral) Serious eye damage/irritation, category 1 H272: May intensify fire; oxidizer.H302: Harmful if swallowed.H318: Causes serious eye damage.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Hazard Pictograms

Danger



Hazard Statements

May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye damage.

Precautionary Statements

Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

Section 3. Composition

3.1 Substances

| Component | CAS No. | EEC No. | REACH No. | Conc w/w | CLP Classification (1272/2008/CE) |
|-----------------|----------------|-----------|-----------------------|----------|--|
| Calcium nitrate | 13477-34- 4 | 233-332-1 | 01-2119495093-35-XXXX | >98% | Ox. Sol. 3, Acute Tox. 4 (O), 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. |
| Inhalation | Remove from exposure. |
| Ingestion | If conscious give plenty of water to drink. 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. 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 MediaWater spray.Unsuitable MediaNothing specified.

5.2 Special hazards arising from the substance or mixture

May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable.

5.3 Advice for firefighters

Hazards

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 Presents no major hazards.

6.2 Environmental precautions

En

| nviromental 1 | Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local |
|---------------|---|
| l | Environmental Health Officer if major spillage occurs. |

6.3 Methods and material for containment and cleaning up

Major SpillageShovel/sweep up into container for removal Wash area down with copious amounts of water.Minor SpillageWash 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.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

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 1 | 5min period) |
| Calcium nitrate | 13477-34-4 | >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 | White deliquescent crystalline material. |
|-----------------------|--|
| Odour | No specific odour. |
| pH | 6 @ 20°C |
| Boiling Point | Not available |
| Melting Point | 44 °C |
| Flash Point | Not applicable |
| Upper Flammable Limit | Not applicable |
| Lower Flammable Limit | Not applicable |
| Auto Ignition | Not applicable |
| Explosive Properties | No. |
| Oxidising Properties | Yes. |
| Vapour Pressure | Not applicable |
| Relative Density | 1.8200 |
| Water Solubility | Very 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 |
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10.3 Possibility of hazardous reactions

No data available.

- **10.4** Conditions to Avoid
- **10.5** Incompatable Materials Combustible materials. Many organic compounds.
- **10.6** Hazardous Decomposition Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen. Products

Do not allow to impregnate wood or other organic materials.

Section 11. Toxicological Information

11.1 Information on toxicological effects

| Eyes | Causes serious eye damage. |
|----------------------|--|
| Skin | The solid and solutions may be irritating to the skin. |
| LD50 Skin | Not available |
| Ingestion | Low order of acute toxicity. |
| LD50 Oral | 3900mg/kg Rat |
| Inhalation | Presents no significant health hazard by inhalation. |
| LD50 Inhalation | Not available |
| TCLo | Not available |
| Carcinogenicity | No information is available. |
| Mutagenicity | No information is available. |
| Reproductive Effects | No information is available. |

Section 12. Ecological

| 12.1 | Toxicity | Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life. |
|------|----------------------------------|---|
| | 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 Contaminated Packaging Do not dispose of as domestic waste. Wash out containers with water.

Section 14. Transport Information

| 14.1 | UN Number | 1454 | <u>^</u> | |
|--------------|------------------------------------|----------------------------------|----------|--|
| 14.2 | Proper Shipping Name | Calcium nitrate | | |
| 14.3 | Transport classes | | | |
| | UN classification | 5.1 | | |
| | Subsidiary hazard(s) | None | AGENT | |
| | Transport category | 3 | 5.1 | |
| | ADR Hazard ID | 50 | | |
| | Tunnel Restriction Code | E | | |
| 14.4 | Packing Group | III | | |
| 14.5 | Environment hazards | See section 12. | | |
| 14.6 | Special precautions for user | No special precautions required. | | |
| 1 4.7 | Transport in bulk | Not transported in bulk. | | |
| Sec | Section 15. Regulatory Information | | | |

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

| Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE) | | | |
|--|--|--|--|
| Classification | Oxidising solid, category 3; Acute toxicity, category 4 (oral); Serious eye damage/irritation, category 1 | | |
| Signal word | Danger | | |
| Hazard Pictograms | | | |
| Hazard Statements | H272, H302, H318 May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye damage. | | |
| Precautionary Statements | P280, P260, P301+P330+P331, P303+P361+P353, P304+P340, P305+P351+P338 Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. | | |

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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