

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product Identifier                      CalSea Mn
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Relevant uses:                              Use as a professional use fertiliser.
- 1.3. Details of the supplier of the safety data sheet  
Company:                                      Tour Best Europe Ltd, The Old Bakery, Hyde End Lane, Brimpton, Berkshire, RG7 4RH. UK.  
Phone:                                         +44 (0) 1189 710 997  
Email:                                         golf@tourbest.eu
- 1.4. Emergency telephone number      +44 (0) 7725 962 366

### SECTION 2: Hazards Identification

#### 2.1. Classification of the substance or mixture

CLASSIFICATION according to Directive EC 1272/2008 Classification, Labelling and Packaging

- Acute Tox 4 (oral)                              H302: Harmful if swallowed  
Skin Corr. 1C                                    H314: Causes severe skin burns and eye damage  
Eye Dam. 1;                                      H318: Causes serious eye damage

CLASSIFICATION according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation

- Xn; R22    Harmful; Harmful if swallowed  
Xi; R38    Irritant; Irritating to skin  
Xi; R41    Irritant; Risk of serious damage to eyes

#### Primary Hazard

Harmful if swallowed. Causes skin burns and serious eye damage.

#### 2.2. Label elements

Contains: Calcium nitrate E.C. 233-332-1, Manganese nitrate E.C. 233-828-8



Signal word: Danger



















- Hazard Statements:                              H302: Harmful if swallowed  
    H314: Causes severe skin burns and eye damage
- Precautionary Statements:                    P260: Do not breathe mist/spray.  
    P280: Wear protective gloves / protective clothing / eye protection / face protection.  
    P301+P312: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
    P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing.  
    Rinse skin with water / shower.  
    P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
    P310: Immediately call a POISON Center or doctor/physician.  
    P501: Dispose of contents/container in accordance with local/national/regulations.

## 2.3. Other hazards

EUH208: Contains reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

## SECTION 3: Composition/Information on Ingredients

Hazardous components:

Identification	Chemical Name/Classification	Concentration	
CAS: 10124-37-5 EC: 233-332-1 REACH: 01-2119495093-35-0017	Calcium Nitrate	40-50%	
	Directive 67/548/EC		R22, R41 
	Regulation 1272/2008		Acute Tox.4 - H302 Eye Dam .1 - H318  
CAS: 10377-66-9 EC: 233-828-8 REACH: 01-3119487993-17	Manganese Nitrate	5-9.9%	
	Directive 67/548/EC		R8, R22, R34, R41, R48/20, R52/53   
	Regulation 1272/2008		Oxid. Solid 2 H272, Acute Tox. 4 (Oral) H302, Skin Corr. 1C H314, Eye Dam. 1 H318, STOT RE 2 H373, Aquatic Chronic 3 H412    
CAS: 10124-37-5 EC: 233-332-1 REACH: 01-2119495093-35-0017	reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	<0.001%	
	Directive 67/548/EC		R23/24/25, R34, R43, R50/53    
	Regulation 1272/2008		Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317    

The full text and symbols for all hazard information if not displayed in section 2 or 3 are displayed in Section 16

## SECTION 4: First-Aid Measures

## 4.1. Description of first aid measures

By inhalation: If symptoms arise remove from source of exposure to fresh air. Obtain medical attention IMMEDIATELY.

By skin contact: Drench immediately with water. Remove any contaminated clothing and launder before re-use. Obtain medical attention IMMEDIATELY.

By eye contact: Immediately rinse with clean water for 15 minutes. Obtain medical attention IMMEDIATELY.

By consumption: Do not induce vomiting. Wash out mouth with water and give water to drink. Obtain medical attention IMMEDIATELY.

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

Harmful if swallowed. Causes skin burns and serious eye damage. May cause damage to brain through prolonged or repeated exposure.

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

Seek medical advice.

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SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Use Foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable as such extinguishing media should also be chosen as appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Possible irritant fumes arising from combustion.

5.3. Advice for fire-fighters

Cool down containers/equipment exposed to heat with a water spray. Contain spread of extinguishing fluids (these fluids may be hazardous for the environment). Wear complete protective clothing and self-contained breathing apparatus.

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SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified.

Ensure adequate ventilation

Use personal protective equipment:   Gloves  
  Eye protection  
  Suitable respirator if dust is generated during handling

6.2. Environmental precautions

Do not allow to enter storm drains or water courses. If this product enters a water course or a sewer (including via contaminated soil & vegetation) in large quantities contact local water authority and inform the Environment Agency.

6.3. Methods and material for containment and cleaning up

Use soil, sand or other absorbent material. Contact specialist waste disposal contractor.

6.4. Reference to other sections

See section 8 for personal protective equipment specification.

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SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Wash Hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool dry atmosphere, in original labelled containers. Refer to manufacturer for maximum safe stacking height. Keep away from heat sources, combustible materials.

7.3. Specific end use(s)

No specific information available.

**SECTION 8: Exposure Controls/Personal Protection**
**8.1. Control parameters**

Workplace exposure Limits as defined by UK HSE in document EH40/2005 where available:

Substance	CAS Number	Workplace Exposure Limit				Comments
		Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15 minute reference period)		
		ppm	mg.m-3	ppm	mg.m-3	
Manganese and its inorganic compounds	-	-	0.5	-	-	The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to the substances identified in IOELV Directives*

\*IOELV – Indicative Occupational Exposure Limit Values (IOLEV).

**Caclium nitrate:**

Regulated occupational exposure limit values: none Recommended occupational, consumer and environmental exposure limit values (following from the performed CSA):

<b>DNELs:</b>	<b>Workers:</b>	<b>General population:</b>
Oral	Not applicable	8.55 mg/kg bw/day
Dermal	14.27 mg/kg bw/day	8.55 mg/kg bw/day
Inhalation	25.16 mg/m <sup>3</sup>	6.54 mg/m <sup>3</sup>

<b>PNECs:</b>	Aqua-freshwater	0.45 mg/l
	Aqua-marine water	0.045 mg/l
	Aqua-intermittent release	4.5 mg/l
	STP	18 mg/l

**8.2. Exposure controls**

Considered for handling bulk concentrate

Goggles – Eye Protection: goggles/face shield to BS EN166.

Gloves – BS EN374 – chemical protection: physical barrier protection only

Suitable engineering controls should be in place for measuring and decanting of product. Avoid formulation of dust

**SECTION 9: Physical and Chemical Properties**
**9.1. Information on basic physical and chemical properties**

Appearance:	Brown Liquid
pH:	4.5 – 5.5
Flash point:	Mixture not classed as Flammable
Explosive Properties:	Mixture not classed as explosive
Oxidising Properties:	Mixture not classed as oxidising
Specific gravity:	1.41 ± 0.02

**9.2. Other information**

No other relevant information available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No reactions known.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Information not available.

10.4. Conditions to avoid

Extremes of temperature.

10.5. Incompatible materials

Metals.

10.6. Hazardous decomposition products

Possible Irritant fumes.

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SECTION 11: Toxicological Information

11.1. Information on toxicological effects

This mixture has not been assessed for toxicological effects as the mixture is not classified as dangerous based on its individual components.

11.2. Other Information

None.

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SECTION 12: Ecological Information

12.1. Toxicity

Mixture classified as: Harmful to aquatic life with long lasting effects

Environmental toxicity of ingredients where available:

Manganese nitrate:	LC50 other aquatic organisms 1	14.5 mg/l Mn (Oncorhynchus mykiss - 96h)
	EC50 Daphnia 1	9.8 mg/l Mn (48h)
	NOEC (chronic)	0.6 mg/l Mn (Oncorhynchus mykiss - 4 mois)

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

Not classified

12.6. Other adverse effects

Information not available

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SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Use only licensed waste disposal companies for unwanted chemical. Do not re-use empty containers for any purpose, dispose of packaging in accordance with local regulations.

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SECTION 14: Transport Information

14.1 UN number

UN3264

14.2 UN proper shipping name

Corrosive liquid, acidic, inorganic, N.O.S. (Calcium nitrate E.C. 233-332-1, Manganese nitrate E.C. 233-828-8)

14.3 Transport hazard

8

14.4 Packing group

III

14.5 Environmental hazards

Product is classified as hazardous to aquatic organisms

14.6 Special precautions for user

No information available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Applicable for Maritime bulk transport only. Check with carrier.

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SECTION 15: Regulatory Information

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

This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EC Fertiliser Regulations 2003, Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

The supplier has not carried out evaluation of chemical safety.

#### 16. OTHER INFORMATION

The information contained herein relates only to the designated formulation and may not be valid if product is used in combination with other substances. The information is to the best of our knowledge, belief and understanding, true, accurate and reliable at the date of issue. However, the information may neither be exhaustive or complete, and no warranty, guarantee or liability concerning the accuracy or completeness of the information is expressed or implied. It is the user's risk and sole responsibility to verify and satisfy their own criteria and duty of care concerning the validity of the information in relation to their application of the product.

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