

<p>Aggregate Industries H&S dept Hulland Ward, Ashbourne, Derbyshire DE6 3ET</p>	<p>Safety Data Sheet Issue Date: January 2008</p>
<p>1. IDENTIFICATION OF THE SUBSTANCE</p>	<p>2. COMPOSITION / INFORMATION ON INGREDIENTS</p>
<p>Winter Salt</p> <p><u>Product description</u></p> <p>When applied to paths, roads and driveways winter salt lowers the freezing point of water, thawing frost and ice and preventing subsequent freezing.</p>	<p>Winter salt is approximately 94% common salt (Calcium Chloride NaCl).</p> <p>Winter salt often has a reddish brown colour owing to the presence of marl (an insoluble clay), which is the chief impurity.</p>
<p>3. HAZARDS IDENTIFICATION</p>	<p>4. FIRST AID MEASURES</p>
<p>There is a potential for total inhalable and respirable dust to be released during the handling and use of winter salt, which could pose a health hazard.</p> <p>Short-term exposure to respirable dust produces reversible effects such as an increase in mucus, irritation of the nose and throat and constriction of the airways, whereas long-term exposure can lead to irreversible scarring and fibrosis, exacerbate conditions such as bronchitis and asthma and lead to impaired respiratory performance.</p> <p>Winter Salt and dust particles can also cause abrasion or irritation to skin and eyes and gastrointestinal irritation if ingested. The weight of bagged product could pose a health hazard if inappropriate manual handling techniques are employed.</p> <p>For further guidance see HSE Publications EH44 Dust: General Principles of Protection and Getting to Grips with Manual Handling: a Short Guide.</p>	<p><u>General</u></p> <p>Unlikely to be hazardous if handled correctly.</p> <p><u>Inhalation</u></p> <p>Remove to a dust free area and seek medical attention if breathing difficulties are experienced.</p> <p><u>Skin</u></p> <p>Wash with soap and water. If prolonged contact causes irritation seek medical attention.</p> <p><u>Eyes</u></p> <p>Irrigate with plenty of water and seek medical attention if soreness continues.</p> <p><u>Ingestion</u></p> <p>Vomiting is likely, wash out mouth with water and give 300 ml (half a pint) of water to drink. Seek medical advice if vomiting has not occurred.</p>
<p>5. FIRE FIGHTING MEASURES</p>	<p>6. ACCIDENTAL RELEASE MEASURES</p>
<p>No fire or explosive hazard. Non combustible will withstand temperatures up to its melting point and beyond without decomposing.</p>	<p><u>Personal precautions</u></p> <p>Avoid inhaling dust and contact with eyes. Wear overalls and gloves.</p> <p><u>Environmental measures</u></p> <p>Clear up spillages, transfer to a container for disposal. Alternatively, drench spillage with water and wash to drain.</p>

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7. HANDLING AND STORAGE

Handling

The product should be handled in a manner that will minimise the generation of airborne dust. Inhalation of dust should be avoided. Skin and eye contact should be avoided.

Manual handling of bagged product should be avoided so far as is reasonably practical. Where this is not possible, an assessment should be made, taking into account the load, environment, task, and individual capability and training. Always employ good lifting techniques.

Storage

Bagged product should be palletised and kept secure.

Keep away from concentrated acids and common metals. Winter salt can be stored outside, keep away from valued vegetation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure limits

- Total Inhalable Nuisance Dust: 10.0 mg/m³ (WEL)
- Total Respirable Nuisance Dust: 4.0 mg/m³ (WEL)

All are given as maximum concentrations and expressed as an 8 Hour Time Weighted Average (8 Hr TWA).

Respiratory protection

Dust masks or respirators should be worn during the handling of large volumes and use of the product to accord with the relevant WEL listed above.

Protection of skin and eyes

Gloves, overalls and goggles should be worn during handling and use of the product.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Grey or red/brown crystalline solid
Odour	Odourless
PH	Not applicable
Boling Point/Range	1413 ^o C
Melting Point	802 ^o C
Flash Point	Not applicable
Flammability	Not applicable
Auto Flammability	Not applicable
Explosive Properties	Not applicable
Oxidising Properties	Not applicable
Vapour Pressure	0 at 20 ^o C
Relative Density	2.165 at 20 ^o C
Solubility	Readily soluble in water

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Hazardous Reactions

Reaction with concentrated acid with produce hydrogen chloride. Under wet conditions winter salt will corrode many common metals, particularly iron, aluminum and zinc.

11. TOXICOLOGICAL INFORMATION

Inhalation: High concentration of dust may be irritant to the respiratory tract.

Skin Contact and eye contact: Repeated or prolonged may cause irritation.

Ingestion: Swallowing of small amounts is unlikely to cause adverse effects. In larger quantities it may result in irritation of the gastrointestinal tract leading to nausea, vomiting and diarrhoea.

Long term exposure: Chronic effects may result from the ingestion of excessive amounts of winter salt. Ingestion of hypertonic solutions can cause disturbance of body electrolyte and fluid balance.

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12. ECOLOGICAL INFORMATION	13. DISPOSAL CONSIDERATIONS								
<p><u>Mobility</u></p> <p>Soluble in water. Highly mobile in most ground conditions</p> <p><u>Persistence/Degradability</u></p> <p>Non bio-degradable</p> <p><u>Bio-accumulations</u></p> <p>Product is not expected to bio-accumulate</p> <p><u>Ecotoxicity</u></p> <table border="0"> <tr> <td>48hr EC50 (Daphnia)</td> <td>2024mg/l</td> </tr> <tr> <td>72hr EC50 (Algae)</td> <td>3014mg/l</td> </tr> <tr> <td>Daphnia Subacute</td> <td>1062mg/l</td> </tr> <tr> <td>Fish Subacute</td> <td>433mg/l</td> </tr> </table>	48hr EC50 (Daphnia)	2024mg/l	72hr EC50 (Algae)	3014mg/l	Daphnia Subacute	1062mg/l	Fish Subacute	433mg/l	<p><u>Product Disposal</u></p> <p>Should be disposed of in accordance with local and national legal requirements. See the Environmental Protection Act 1990 'Duty of Care'.</p> <p><u>Packaging</u></p> <p>As for product</p>
48hr EC50 (Daphnia)	2024mg/l								
72hr EC50 (Algae)	3014mg/l								
Daphnia Subacute	1062mg/l								
Fish Subacute	433mg/l								
14. TRANSPORT INFORMATION	15. REGULATORY INFORMATION								
<p>No special carriage requirements.</p>	<p>The Chemicals (Hazard Information and Packaging) Regulations 1993.</p> <p>Classifications for conveyance: None</p> <p>Classifications for Supply: Non Hazardous</p>								

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16. OTHER INFORMATION

Training advice

Wear and use any specified PPE

Recommended uses

Melting of frost and ice

Product form

25 kg and 40 kg plastic bags

Further information sources

Aggregate Industries UK Limited
Hulland Ward
Ashbourne
Derbyshire
DE6 3ET

Tel. (01335) 372222

Fax. (01335) 372223

Sources of key data used to compile data sheet

EH40 2005 Workplace Exposure Limits (supplementary amendment 01 October 2006)
PPE Regulations 1992
Manual Handling Regulations 1992 (as amended)
COSHH Regulations 2002 (as amended)
COSHH (Amendment) Regulations 2004
Environmental Protection Act 1990 'Duty of Care'

LEGAL NOTICE

The information contained in this Safety Data Sheet was considered the best available at the date of issue. However, no warranty is made or implied that the information is accurate or complete. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.