

Safety Data Sheet**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product identifier**

Product Name	• Action Melt
Synonyms	• Action Melt w/CMA; Pro Grade Blue Ice Melter; Pro Grade Ice Melter; Pro Grade Ice Melter w/CMA, Arctic Thaw
SDS Number/Grade	• 98108

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s)	• Ice Control
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1.3 Details of the supplier of the safety data sheet

Manufacturer	• Morton Salt, Inc. 123 N. Wacker Drive Chicago, IL 60606 United States
	saltinfo@mortonsalt.com
Telephone (General)	• 312-807-2000

1.4 Emergency telephone number

Manufacturer	• 312-807-2000
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Section 2: Hazards Identification**EU/EEC**

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP	• Eye Irritation 2 - H319
DSD/DPD	• Not classified

2.2 Label Elements

CLP

WARNING

Hazard statements • H319 - Causes serious eye irritation

Precautionary statements

Prevention • P264 - Wash thoroughly after handling.
P280 - Wear eye/face protection , .

- Response** ● P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.

DSD/DPD

- Risk phrases** ● No label element(s) specifically required

2.3 Other Hazards**CLP**

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

- According to European Directive 1999/45/EC this preparation is not considered dangerous.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012 ● Eye Irritation 2 - H319

2.2 Label elements**OSHA HCS 2012****WARNING**

- Hazard statements** ● Causes serious eye irritation - H319

Precautionary statements

- Prevention** ● Wash thoroughly after handling. - P264
Wear eye/face protection , . - P280
- Response** ● IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
If eye irritation persists: Get medical advice/attention. - P337+P313

2.3 Other hazards**OSHA HCS 2012**

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

- WHMIS ● Other Toxic Effects - D2B

2.2 Label elements**WHMIS**

- Other Toxic Effects - D2B

2.3 Other hazards**WHMIS**

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Sodium chloride	CAS:7647-14-5 EC Number:231-598-3	86% TO 93%	Ingestion/Oral-Rat LD50 • 3000 mg/kg	EU DSD/DPD: Not Classified - Criteria not met EU CLP: Not Classified - Criteria not met OSHA HCS 2012: Not Classified - Criteria not met	May contain small quantities of naturally occurring calcium and magnesium salts
Calcium chloride	CAS:10043-52-4 EC Number:233-140-8	5% TO 10%	Ingestion/Oral-Rat LD50 • 1 g/kg	EU DSD/DPD: Annex I: Xi; R36 EU CLP: Annex VI: Eye Irrit. 2; H319 OSHA HCS 2012: Eye Irrit 2; Acute Tox 4 (orl)	NDA
Acetic acid, calcium magnesium salt	CAS:76123-46-1	1%	Ingestion/Oral-Rat LD50 • 3071 mg/kg Inhalation-Rat LC50 • >4600 mg/m ³ 4 Hour (s) Skin-Rabbit LD50 • >5 g/kg	EU DSD/DPD: Data lacking EU CLP: Data lacking OSHA HCS 2012: Data lacking	NDA
Dye	NDA	< 0.01%	NDA	EU DSD/DPD: Self Classified: R42-43; Xi; R36-38 EU CLP: Self Classified: Skin Sens. 1, H317; Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319 OSHA HCS 2012: Skin Sens. 1; Resp. Sens. 1; Skin Irrit. 2; Eye Irrit. 2	NDA

See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

- If large quantities are swallowed, call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • Material is non-combustible. In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media • No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • No unusual fire or explosion hazards known.

Hazardous Combustion Products • No data available

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions • Wear suitable protective clothing, gloves, and eye/face protection.

Emergency Procedures • Stop leak if you can do it without risk. Keep unauthorized personnel away. Use normal clean up procedures.

6.2 Environmental precautions

- None expected to be necessary if material is used under ordinary conditions and as recommended.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures • Carefully shovel or sweep up spilled material and place in suitable container.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling • Use good safety and industrial hygiene practices. Wash thoroughly after handling. Keep out of reach of children.

7.2 Conditions for safe storage, including any incompatibilities

Storage • Avoid storage with strong acids and strong oxidizing agents.

Incompatible Materials or Ignition Sources • Strong oxidizing agents, strong acids.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines		
	Result	Canada Ontario
Calcium chloride (10043-52-4)	TWAs	5 mg/m ³ TWA

8.2 Exposure controls

Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Pictograms



Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear safety glasses.

Skin/Body

- Wear appropriate gloves.

General Industrial Hygiene Considerations

- Do not get in eyes or on skin or clothing. Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Colorless, white or blue coated crystals with white flakes or spheres with no odor.
Color	Colorless, white or blue.	Odor	Odorless
Odor Threshold	Data lacking		
General Properties			
Boiling Point	1413 C(2575.4 F)	Melting Point	801 C(1473.8 F) Sodium Chloride
Decomposition Temperature	Data lacking	pH	8.5 to 9.5
Specific Gravity/Relative Density	2.165 Water=1 Sodium Chloride	Bulk Density	1.0 - 1.2 g/mL
Water Solubility	Soluble 0.36 g/cc @ 20 C(68 F)	Viscosity	Not relevant
Explosive Properties	Not relevant.	Oxidizing Properties:	Not relevant.
Volatility			
Vapor Pressure	Negligible	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not flammable.		
Environmental			

Octanol/Water Partition coefficient	Data lacking		
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9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Incompatible materials.

10.5 Incompatible materials

- Strong oxidizing agents, strong acids.

10.6 Hazardous decomposition products

- Will react with strong acids to generate hydrogen chloride and with strong oxidizing agents to generate chlorine gas.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Component Name	CAS	Data
Sodium chloride (86% TO 93%)	7647-14-5	Acute Toxicity: orl-rat LD50:3000 mg/kg
Calcium chloride (5% TO 10%)	10043-52-4	Acute Toxicity: orl-rat LD50:1 gm/kg

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-SE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met

Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2

Potential Health Effects

Inhalation

Acute (Immediate)

- Under normal conditions of use, no health effects are expected. Inhalation of dust may cause mild irritation to mucous membranes, nose and throat. Symptoms may include coughing, dryness and sore throat.

Chronic (Delayed)

- No data available.

Skin

Acute (Immediate)

- Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

- No data available.

Eye

Acute (Immediate)

- Causes serious eye irritation.

Chronic (Delayed)

- No data available.

Ingestion

Acute (Immediate)

- Ingestion may cause the following symptoms - diarrhea.

Chronic (Delayed)

- No data available.

Key to abbreviations

LD = Lethal Dose

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not regulated	NDA	NDA	NDA
TDG	NDA	Not regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not regulated	NDA	NDA	NDA

14.6 Special precautions for user

- None known.

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

- Not relevant.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**SARA Hazard Classifications** • Acute

State Right To Know				
Component	CAS	MA	NJ	PA
Acetic acid, calcium magnesium salt	76123-46-1	No	No	No
Calcium chloride	10043-52-4	No	No	No
Sodium chloride	7647-14-5	No	No	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Acetic acid, calcium magnesium salt	76123-46-1	Yes	No	No	No	No
Calcium chloride	10043-52-4	Yes	No	Yes	No	Yes
Sodium chloride	7647-14-5	Yes	No	Yes	No	Yes

Canada**Labor****Canada - WHMIS - Classifications of Substances**

- | | | |
|---------------------------------------|------------|---|
| • Calcium chloride | 10043-52-4 | D2B |
| • Acetic acid, calcium magnesium salt | 76123-46-1 | Not Listed |
| • Sodium chloride | 7647-14-5 | Uncontrolled product according to WHMIS classification criteria |

Canada - WHMIS - Ingredient Disclosure List

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Environment**Canada - 2004 NPRI (National Pollutant Release Inventory)**

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Canada - 2005 NPRI (National Pollutant Release Inventory)

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Canada - CEPA - Priority Substances List

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Canada - DWQ (Drinking Water Quality) - IMACs

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Other**Canada - Accelerated Reduction/Elimination of Toxics (ARET)**

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Canada New Brunswick**Environment****Canada - New Brunswick - Ozone Depleting Substances - Schedule A**

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Canada - New Brunswick - Ozone Depleting Substances - Schedule B

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Europe**Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

• Calcium chloride	10043-52-4	Xi; R36
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• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Calcium chloride	10043-52-4	Xi R:36 S:(2)-22-24
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Calcium chloride	10043-52-4	S:(2)-22-24
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Mexico**Other****Mexico - Hazard Classifications**

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Mexico - Regulated Substances

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

United States**Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Calcium chloride	10043-52-4	Not Listed
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• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Calcium chloride	10043-52-4	Not Listed
• Acetic acid, calcium magnesium salt	76123-46-1	Not Listed
• Sodium chloride	7647-14-5	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Last Revision Date

- 29/October/2014

Preparation Date

- 09/August/2012

Disclaimer/Statement of Liability

- The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations. Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.

Key to abbreviations

NDA = No data available