

Safety Data Sheet

MORTON SALT, INC.**Section 1: Identification****Product identifier****Product Name** • **Clean and Protect + Rust Defense****Synonyms** • Water Conditioning Salt**SDS Number/Grade** • 1471**Relevant identified uses of the substance or mixture and uses advised against****Recommended use** • Recharging water conditioner ion exchange resin regeneration**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**Emergency telephone number****Manufacturer** • 312-807-2000**Section 2: Hazard Identification****UN GHS Revision 3**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Third Revised Edition

Classification of the substance or mixture**UN GHS** • Not classified**Label elements****UN GHS****Hazard statements** • No label element(s) required**Precautionary statements****Other hazards****UN GHS** • According to the Globally Harmonized System for Classification and Labeling (GHS) this product is not considered hazardous**United States (US)**

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture**OSHA HCS 2012** • Not classified

Label elements**OSHA HCS 2012****Hazard statements** • No label element(s) required**Other hazards****OSHA HCS 2012**

- This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Canada

According to: WHMIS 2015

Classification of the substance or mixture**WHMIS 2015**

- Not classified

Label elements**WHMIS 2015****Hazard statements** • No label element(s) required**Precautionary statements****Other hazards****WHMIS 2015**

- In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients**Substances**

- Material does not meet the criteria of a substance.

Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Sodium chloride	CAS:7647-14-5	98.505% TO 98.90121%	Ingestion/Oral-Rat LD50 • 3000 mg/kg	UN GHS Revision 3: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA
Citrates	Proprietary	0.33% TO 0.55%	NDA	UN GHS Revision 3: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA
Anionic Surfactant	Proprietary	0.0036% TO 0.00945%	NDA	OSHA HCS 2012: Exposure Limit	NDA
Anionic Surfactant	Proprietary	0.00084% TO 0.00273%	NDA	OSHA HCS 2012: Exposure Limit	NDA
Anionic Surfactant	Proprietary	<= 0.000315%	NDA	OSHA HCS 2012: Exposure Limit	NDA

Section 4: First-Aid Measures

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.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

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: Fire-Fighting Measures

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.

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

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

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.

Environmental precautions

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

Methods and material for containment and cleaning up

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

Reference to other sections

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

Section 7 - Handling and Storage

Precautions for safe handling

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

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.

Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

Control parameters

- Exposure Limits/Guidelines**
- No applicable exposure limits available for product or components.

Exposure controls

- Engineering Measures/Controls**
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

- 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

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	White pellet.
Color	White	Odor	No data available
Odor Threshold	No data available		
General Properties			
Boiling Point	2575 °F(1412.7778 °C)	Melting Point/Freezing Point	1473.8 °F(801 °C)
Decomposition Temperature	No data available	pH	2.5 to 3
Specific Gravity/Relative Density	= 2.165 Water=1	Water Solubility	Soluble 100 %
Viscosity	No data available		
Volatility			
Vapor Pressure	1 mmHg (torr) @ 1589 °F(865 °C)	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Incompatible materials.

Incompatible materials

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

Hazardous decomposition products

- No data available

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Sodium chloride (98.505% TO 98.90121%)	7647-14-5	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3000 mg/kg; Irritation: Eye-Rabbit • 10 mg • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation

GHS Properties	Classification
Acute toxicity	UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Skin corrosion/Irritation	UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Serious eye damage/Irritation	UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Skin sensitization	UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Respiratory sensitization	UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Aspiration Hazard	UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
	UN GHS 3 • No data available

Carcinogenicity	OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Germ Cell Mutagenicity	UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Toxicity for Reproduction	UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
STOT-SE	UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
STOT-RE	UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available

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)

- Based upon practical use and experience using this product eye irritation is not expected to occur.

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

Toxicity

- Material data lacking.

Persistence and degradability

- Material data lacking.

Bioaccumulative potential

- Material data lacking.

Mobility in Soil

- Material data lacking.

Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

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

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

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

SARA Hazard Classifications • None

State Right To Know				
Component	CAS	MA	NJ	PA
Anionic Surfactant	<i>Proprietary</i>	No	No	No
Anionic Surfactant	<i>Proprietary</i>	No	No	No
Citrates	<i>Proprietary</i>	No	No	No
Sodium chloride	7647-14-5	No	No	No
Anionic Surfactant	<i>Proprietary</i>	Yes	No	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Anionic Surfactant	<i>Proprietary</i>	Yes	No	Yes	No	Yes
Anionic Surfactant	<i>Proprietary</i>	Yes	No	Yes	No	Yes
Citrates	<i>Proprietary</i>	Yes	No	Yes	No	Yes
Sodium chloride	7647-14-5	Yes	No	Yes	No	Yes
Anionic Surfactant	<i>Proprietary</i>	Yes	No	Yes	No	Yes

Canada

Labor

Canada - WHMIS 1988 - Classifications of Substances

• Anionic Surfactant	<i>Proprietary</i>	Uncontrolled product according to WHMIS classification criteria
• Sodium chloride	7647-14-5	Uncontrolled product according to WHMIS classification criteria
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

Canada - WHMIS 1988 - Ingredient Disclosure List

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

Europe

Other

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed

• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
U.S. - CERCLA/SARA - Section 313 - Emission Reporting		
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing		
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
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• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

United States - Pennsylvania**Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Anionic Surfactant	<i>Proprietary</i>	(solution)
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

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

• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Citrates	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed
• Anionic Surfactant	<i>Proprietary</i>	Not Listed

Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Revision Date	• 02/March/2017
Preparation Date	• 03/January/2017
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