# K+S Windsor Salt Ltd./K+S Sel Windsor Ltée

# Material Safety Data Sheet

Eff. Date:

January 1, 2017

Emergency Phone Number: 312-807-2000

(Morton Salt Co.)

# (1) PRODUCT INFORMATION

Product Name:

Select, Select Plus

Supplier:

see above

Common Name:

Salt, Rock Salt, Halite

Product Use:

Various

CAS Number:

7647-14-5

Chemical Formula:

NaCl

(2) HAZARDOUS INGREDIENTS

Chemical Name

Common Name

CAS

%

**OSHA** 

ACGIH

TLV-TWA Number PEL

None

This is not a hazardous or controlled product as defined under Canada's WHMIS regulations.

This is not a hazardous or controlled product as defined under Canada's Hazardous Products Act and Controlled Products Regulations.

All ingredients are found in Canada's Domestic Substances List.

This product is not hazardous as defined by Canada's Transportation of Dangerous Goods Act.

This product is regarded as GRAS (generally recognized as safe) by the U.S. Food & Drug Administration.

No occupational exposure limits have been established by OSHA, ACGIH or NIOSH for this product.

NFPA RATINGS (Scale 0-4):

Health=1

Fire=0

Reactivity=0

### (3) PHYSICAL DATA

Boiling Point (760mm Hg): Vapour Pressure (mm Hg): 1,413° C (2,575° F)

Specific Gravity (Water=1):

2.165

1 mm @ 865°C (1,589°F)

% non-volatile:

100

Vapour Density (Air =1):

N/A

Evaporation rate (ether=1):

N/A

Solubility in Water:

36 g/100 cc water at 20°C(68°F)

5.5 - 9.5

Appearance:

Colorless or white crystals (depending on additives)

Rock salt may have dark impurities

Odour:

none

Melting Point:

801°C (1,474°F)

## (4) FIRE AND EXPLOSION HAZARD DATA

Flash Point:

N/A

Flammable Limits

LEL: N/A UEL: N/A

Extinguishing Media:

Special Fire Fighting Procedures:

Unusual Fire & Explosion Hazards: Hazardous Decomposition Products: This product is non-combustible

None required None

None None



#### (5) REACTIVITY DATA

Stability:

Stable under normal temperatures and pressures

Incompatibility (Materials to Avoid):

Stable and inert under normal conditions.

Will react with strong acids (to generate HCI) and strong oxidizing agents (to

generate Cl<sub>2</sub>).

Can Hazardous Polymerization occur:

No

Hazardous Decomposition Products and Conditions:

None

### (6) TOXICOLOGICAL PROPERTIES

Oral Toxicity:

Oral rat LD50: 3.000 mg/kg (RTECS, 1986)

Dermal Toxicity:

Skin irritation rabbit: 500 mg/24 hr. Mild (RTECS, 1986) Eye irritation rabbit: 100 mg/24 hr. Moderate (RTECS, 1986)

Eve: Inhalation:

No information found

Chronic Toxicity:

No information found

Mutagenesis:

Mutation references cited (RTECS, 1986)

Effects of Overexposure:

Ingestion:

Very large doses can cause vomiting, diarrhea, and prostration.

Skin Contact:

Not expected to be a health hazard.

Eye Contact:

May cause irritation.

Inhalation:

Inhalation of dust may cause mild irritation to mucous membranes, nose and throat.

Symptoms may include coughing, dryness and sore throat.

Acute Systemic Effects: Dehydration and congestion may occur in internal organs. Hypertonic salt solutions

can produce inflammatory reactions in the gastrointestinal tract.

Chronic Systemic Effects:

No information found

## (7) PREVENTIVE MEASURES

#### SPILL OR LEAK PROCEDURES:

Response to Small Spills:

Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping

may be used to avoid dust dispersal.

Response to Large Spills:

Shovel and sweep up; containerize for reclamation or disposal.

Hazards to be Avoided: None known.

Reportable Quantity:

Check your local requirements.

Waste Classification:

Some jurisdictions have set maximum limits on Chlorides in waste effluent.

Disposal Methods:

Whatever cannot be saved for reclamation may be delivered to an approved waste disposal facility, or if local ordinances allow, can be dissolved in sufficient amounts of water to meet water quality standards, and flushed down a sewer drain. Ensure

compliance with local, provincial/state and federal regulations.

## SPECIAL PROTECTION INFORMATION:

Respiratory Protection:

For conditions of use where exposure to the dust is apparent, a NIOSH approved dust/mist respirator may be worn. For emergencies, a self-contained breathing

apparatus may be necessary.



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For Hands, Body:

If deemed necessary, wear protective gloves and clean body-covering clothing.

For Eyes:

Use chemical safety goggles. Contact lenses should not be worn when working

with this material. Maintain eye wash fountain and quick-drench facilities in work

area

Ventilation:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local

exhaust system should be considered.

SPECIAL PRECAUTIONS:

Other Precautions:

Transport in dry equipment; store in dry location.

LABELLING INFORMATION:

DOT Shipping Name:

Salt (common), sodium chloride

DOT Label: UN Number: Not applicable

Other contents of

Not applicable

product label:

Not applicable

Warning:

None

### (8) EMERGENCY AND FIRST AID PROCEDURES

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Skin Contact:

Wash exposed area with soap and water. Get medical advice if irritation develops.

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

If large amounts were swallowed, get medical advice.

### (9) PREPARED BY:

K+S Windsor Salt Ltd. 755 Boulevard St-Jean, Suite 700 Pointe Claire, Quebec, Canada H9R 5M9 514-630-0900

### **USERS RESPONSIBILITY**

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.

### **DISCLAIMER OF LIABILITY**

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, provincial/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.



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# K+S Windsor Salt Ltd./K+S Sel Windsor Ltée

# Material Safety Data Sheet

Eff. Date:

January 1, 2017

Emergency Phone Number: 312-807-2000

Product Name: System Saver Pellets

(Morton Salt Co.)

# (1) PRODUCT INFORMATION

Chemical Name:

Sodium Chloride Salt

Supplier:

see above

Common Name: Product Use:

Salt, Rock Salt, Halite Water Considitoning

CAS Number:

7647-14-5

Chemical Formula:

NaCl

# (2) HAZARDOUS INGREDIENTS

Chemical

Common

CAS

%

**OSHA** 

**ACGIH** 

2.165

100

N/A

5.5 - 9.5

Name

Name

Number

PEL

Specific Gravity (Water=1):

% non-volatile:

TLV-TWA

None

This is not a hazardous or controlled product as defined under Canada's WHMIS regulations.

This is not a hazardous or controlled product as defined under Canada's Hazardous Products Act and Controlled Products Regulations.

All ingredients are found in Canada's Domestic Substances List.

This product is not hazardous as defined by Canada's Transportation of Dangerous Goods Act.

This product is regarded as GRAS (generally recognized as safe) by the U.S. Food & Drug Administration.

No occupational exposure limits have been established by OSHA, ACGIH or NIOSH for this product.

NFPA RATINGS (Scale 0-4):

Health=1 Fire=0

Reactivity=0

## (3) PHYSICAL DATA

Boiling Point (760mm Hg):

Vapour Pressure (mm Ha):

Vapour Density (Air =1):

Solubility in Water:

Appearance:

1.413° C (2.575° F)

1 mm @ 865°C (1.589°F)

36 g/100 cc water at 20°C(68°F)

Evaporation rate (ether=1): pH:

Colorless or white crystals (depending on additives)

Rock salt may have dark impurities

Odour:

none

Melting Point:

801°C (1,474°F)

# (4) FIRE AND EXPLOSION HAZARD DATA

Flash Point:

N/A

Flammable Limits This product is non-combustible

N/A

LEL:

UEL:

N/A

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Extinguishing Media:

Special Fire Fighting Procedures:

Unusual Fire & Explosion Hazards: Hazardous Decomposition Products:

None required

None

None None

## (5) REACTIVITY DATA

Stability:

Stable under normal temperatures and pressures

Incompatibility (Materials to Avoid):

Stable and inert under normal conditions.

Will react with strong acids (to generate HCI) and strong oxidizing agents (to

generate Cl<sub>2</sub>).

Can Hazardous Polymerization occur:

No

Hazardous Decomposition Products and Conditions:

None

### (6) TOXICOLOGICAL PROPERTIES

Oral Toxicity:

Oral rat LD50: 3,000 mg/kg (RTECS, 1986)

**Dermal Toxicity:** 

Skin irritation rabbit: 500 mg/24 hr. Mild (RTECS, 1986) Eye irritation rabbit: 100 mg/24 hr. Moderate (RTECS, 1986)

Eye: Inhalation:

No information found

Chronic Toxicity:

No information found

Mutagenesis:

Mutation references cited (RTECS, 1986)

Effects of Overexposure:

Ingestion:

Very large doses can cause vomiting, diarrhea, and prostration.

Skin Contact:

Not expected to be a health hazard.

Eye Contact:

May cause irritation.

Inhalation:

Inhalation of dust may cause mild irritation to mucous membranes, nose and throat.

Symptoms may include coughing, dryness and sore throat.

Acute Systemic Effects: Dehydration and congestion may occur in internal organs. Hypertonic salt solutions

can produce inflammatory reactions in the gastrointestinal tract.

Chronic Systemic Effects:

No information found

## (7) PREVENTIVE MEASURES

#### SPILL OR LEAK PROCEDURES:

Response to Small Spills:

Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping

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Hazards to be Avoided: None known.

Reportable Quantity:

Check your local requirements.

Waste Classification:

Some jurisdictions have set maximum limits on Chlorides in waste effluent.

Disposal Methods:

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compliance with local, provincial/state and federal regulations.

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apparatus may be necessary.

For Hands, Body:

If deemed necessary, wear protective gloves and clean body-covering clothing.

For Eyes:

Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and guick-drench facilities in work

Ventilation:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local

exhaust system should be considered.

#### SPECIAL PRECAUTIONS:

Other Precautions:

Transport in dry equipment; store in dry location.

### LABELLING INFORMATION:

DOT Shipping Name:

Salt (common), sodium chloride

DOT Label:

Not applicable Not applicable

UN Number:

Other contents of

Not applicable

product label: Warning:

None

## (8) EMERGENCY AND FIRST AID PROCEDURES

Eve Contact: Skin Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Wash exposed area with soap and water. Get medical advice if irritation develops.

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

If large amounts were swallowed, get medical advice. Ingestion:

# (9) PREPARED BY:

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