# SAFETY DATA SHEET



1. Identification

Product identifier Diamond Crystall® Sodium Shield™ Potassium Chloride

Other means of identification

SDS number ND18

Synonyms Potassium Chloride. \* Diamond Crystal® Sodium Shield™ Potassium Chloride.

Recommended use Water conditioning

**Recommended restrictions** This product is to be used only as a water softener regenerant.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameCargill IncorporatedAddressMinneapolis, MN 55440Telephone1-888-385-7258Websitewww.cargillsalt.com

Emergency telephone CHEMTREC (800) 424-9300

number

2. Hazard(s) identification

Physical hazards Not classified.

Health Hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

# 3. Composition/information on ingredients

## **Mixtures**

Chemical name	CAS number	%
Potassium chloride	7447-40-7	100

## 4. First-aid measures

Inhalation If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a

physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Obtain medical attention if rash develops.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** In case of accidental ingestion of the product, seek medical attention immediately. Give one or two

glasses of water if patient is alert and able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. If vomiting occurs, keep head low so that stomach content

doesn't get into the lungs. Never give anything by mouth to an unconscious person.

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Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation. Ingestion of large amounts usually causes purging of stomach by vomiting.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards This product is not flammable or combustible.

## 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Avoid contact with water and moisture. Keep away from Brominetrifluoride, potassium permanganate, sulfuric acid, nitric acid. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Avoid damp and humid storage facilities, as material is hygroscopic. Keep out of the reach of children.

# 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.

controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Unvented, tight fitting goggles should be worn in dusty areas.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing.

Respiratory protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

**General hygiene** considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

Compressed white pellets. **Appearance** 

Solid. Physical state **Form** Solid. White. Color None. Odor

Odor threshold Not available. Not available. рH Not available. Melting point/freezing point

Initial boiling point and boiling

2573.6 °F (1412 °C) (760 mm Hg)

range

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Not available. Vapor pressure Vapor density Not available. 1.98 - 2Relative density

Solubility(ies)

26 % Solubility (water)

**Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature Viscosity** Not available.

Other information

KCI Molecular formula Molecular weight 74.6

## 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air).

Incompatible materials Brominetrifluoride, potassium permanganate, sulfuric acid, nitric acid.

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**Hazardous decomposition** 

products

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None expected under normal conditions of use.

# 11. Toxicological information

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## Information on likely routes of exposure

Inhalation Inhalation of dusts may cause respiratory irritation. Skin contact Prolonged or repeated skin contact may cause irritation.

Eye contact Dust in the eyes will cause irritation. Ingestion Expected to be a low ingestion hazard. Symptoms related to the physical, chemical and toxicological characteristics

Eye and skin contact: Exposure may cause temporary irritation, redness, or discomfort.

## Information on toxicological effects

**Acute toxicity** 

May cause mechanical irritation of skin and eyes. Individuals under treatment for renal or cardiac disease, high blood pressure or diabetes, should consult their physician prior to consuming water softened with this product. If you are on a potassium restricted diet or your physician has indicated that you should not drink the potassium softened water, an under the counter reverse osmosis system can be installed by your local water conditioning dealer to remove the potassium along with other ions from your kitchen drinking water tap.

Components Species Test Results

Potassium chloride (CAS 7447-40-7)

**Acute** Oral

LD50 Rat 2600 mg/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Dust in the eyes will cause irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard**Due to the physical form of the product it is not an aspiration hazard.

# 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects None known.

# 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport information

DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### **IMDG**

Not regulated as dangerous goods.

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

This substance/mixture is not intended to be transported in bulk.

# 15. Regulatory information

**US** federal regulations All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

**Hazard categories** Immediate Hazard - Yes

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

## SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US** state regulations

## **US. Massachusetts RTK - Substance List**

Not regulated.

# **US. New Jersey Worker and Community Right-to-Know Act**

# US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

## US. Rhode Island RTK

Not regulated.

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

## International Inventories

Country(s) or region On inventory (yes/no)\* Inventory name Australia Australian Inventory of Chemical Substances (AICS) Yes

Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Inventory name

Yes

On inventory (yes/no)\*

# 16. Other information, including date of preparation or last revision

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Country(s) or region

HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0 Personal protection: A

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This information is not intended as a license to operate under, or a recommendation to practice or infringe upon any patent of this Company or others covering any process, composition of matter or use.

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).