# SAFETY DATA SHEET



1. Identification

Product identifier FlakeSelect™ Potassium Chloride

Other means of identification

SDS number K2

Synonyms FlakeSelect Potassium Chloride \* Premier™ Potassium Chloride \* FlakeSelect™ Potassium

Chloride Extra Coarse \* FlakeSelect™ Potassium Chloride Coarse \* FlakeSelect™ Potassium

Chloride Fine with TCP \* FlakeSelect™ Potassium Chloride Flour with TCP

Recommended use This product is intended for use as a food ingredient.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameCargill IncorporatedAddressMinneapolis, MN 55440

Telephone 1-888-385-7258
Website www.cargillsalt.com

Emergency telephone North America: 1-800-255-3924

number International: +1-813-248-0585 Collect calls are accepted

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.

Supplemental information None.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Potassium chloride	7447-40-7	98.0-99.0
Calcium Phosphate - Tribasic	7758-87-4	0.25-1.0

#### 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.

FlakeSelect™ Potassium Chloride SDS US

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.

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 such as: Carbon oxides (COx), Hydrogen

Chloride (HCI). Potassium oxides.

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.

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

This product is not flammable or combustible. General fire hazards

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

controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes

that may be generated during handling or thermal processing.

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.

Skin protection

Other Wear suitable protective clothing.

2/6 922356 Version #: 02 Revision date: 18-April-2018 Issue date: 29-August-2014

Respiratory protection 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. Use a NIOSH/MSHA approved respirator

if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

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

White/opaque crystals. **Appearance** 

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

Odor threshold Not available. Not available.

1428.8 °F (776 °C) Melting point/freezing point

Initial boiling point and boiling

2573.6 °F (1412 °C) (760 mm Hg)

range

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

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

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

Solubility(ies)

28 g/100 cm3 at 0°C Solubility (water)

Partition coefficient Not available.

(n-octanol/water)

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

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

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

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.

Hazardous decomposition

FlakeSelect™ Potassium Chloride

products

None expected under normal conditions of use.

Version #: 02 Revision date: 18-April-2018 922356 Issue date: 29-August-2014

## 11. Toxicological information

Information on likely routes of exposure

Inhalation of dusts may cause respiratory irritation. Inhalation

Prolonged or repeated skin contact may cause irritation. Skin contact

Dust in the eyes will cause irritation. Eye contact May cause gastrointestinal upset. Ingestion

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

May cause mechanical irritation of skin and eyes. Kidney disorders may be aggravated by this Acute toxicity

product. Individuals under treatment for renal or cardiac disease, high blood pressure or diabetes,

should consult their physician prior to consuming this product.

**Species Test Results** Components

Potassium chloride (CAS 7447-40-7)

**Acute** Oral

LD50 Rat 3020 mg/kg

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

Serious eve damage/eve

irritation

Dust in the eyes will cause irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

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

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

mutagenic or genotoxic.

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

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

**NTP Report on Carcinogens** 

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

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

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

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species Test Results** 

Potassium chloride (CAS 7447-40-7)

Aquatic

FlakeSelect™ Potassium Chloride

Crustacea EC50 Water flea (Daphnia magna) 149 mg/l, 48 hours Fish LC50 Western mosquitofish (Gambusia affinis) 435 mg/l, 96 hours

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available. Mobility in soil No data available. Other adverse effects None known.

922356 Version #: 02 Revision date: 18-April-2018 Issue date: 29-August-2014 SDS US 4/6

### 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).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

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** 

the IBC Code

Not regulated as dangerous goods.

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

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

## 15. Regulatory information

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

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Nο

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

Not listed.

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

Not listed.

FlakeSelect™ Potassium Chloride

922356 Version #: 02 Revision date: 18-April-2018 Issue date: 29-August-2014

5 / 6

#### US. Rhode Island RTK

Not regulated.

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
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)

Taiwan Chemical Substance Inventory (TCSI) Taiwan Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

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

Issue date 29-August-2014 Revision date 18-April-2018

Version # 02

**HMIS®** ratings Health: 1

Flammability: 0 Physical hazard: 0 Personal protection: A

Disclaimer

All statements, technical information and recommendations contained herein are, the best of our knowledge, reliable and accurate; however no warranty, either expressed or implied is made with respect thereto, nor will any liability be assumed for damages resultant from the use of the material described.

It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. It is also the responsibility of the user to maintain a safe workplace. The user should consider the health hazards and safety information provided herein as a guide and should take the necessary steps to instruct employees and to develop work practice procedures to ensure a safe work environment.

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.

FlakeSelect™ Potassium Chloride SDS US

<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).