

Safety Data Sheet
Revision date 04/30/2015

100

5 : Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture Substance name : Potash

Product code : GRA, SOG, STD, SUS
Product group : Commercial product

Other means of identification : Muriate of Potash: Granular, Standard, and Suspension Grades, WST

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

Use of the substance/preparation : Fertilizer

# 1.3. Details of the supplier of the safety data sheet

PCS Sales (USA), Inc. 1101 Skokie Blvd. Suite 400

Northbrook, IL 60062

NOTUIDIOOK, IL 60062

T 800-241-6908 / 847-849-4200

Suite 500

122 1st Avenue South

Saskatoon, Saskatchewan Canada S7K7G3

T 800-667-0403 (Canada) / 800-667-3930 (USA)

#### SDS@PotashCorp.com - www.PotashCorp.com

### 1.4. Emergency telephone number

Emergency number : 800-424-9300 CHEMTREC

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US classification**

Eye Irrit. 2B H320

Full text of H-phrases: see section 16

#### 2.2. Label elements

#### **GHS-US labelling**

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H320 - Causes eye irritation

Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling

P305+P351+P338 - If in eyes: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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P337+P313 - If eye irritation persists: Get medical advice/attention

#### 2.3. Other hazards

No Pictogram according to the established criteria No additional information available

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	<b>GHS-US</b> classification
Potassium chloride	(CAS No.) 7447-40-7	95 - 99.8	Eye Irrit. 2B, H320
Sodium chloride	(CAS No.) 7647-14-5	1 - 4	Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			STOT SE 3, H335

May contain up to 0.25% base lubrication (de-dust) oil and/or 0.03% neutralized primary aliphatic (anti-cake) amine.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : If inhaled, remove to fresh air and keep at rest in a position comfortable for

breathing. Give oxygen or artificial respiration if necessary. Obtain medical

attention if breathing difficulty persists.

First-aid measures after skin contact : Wash skin thoroughly with mild soap and water. Obtain medical attention if

irritation develops or persists.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period (15 minutes) while

holding the eyelids wide open including upper and lower lids. Obtain

medical attention if pain and irritation develops or persists.

First-aid measures after ingestion : Do not induce vomiting. Administer water if patient is conscious. Ingesting

potash will usually cause purging of the stomach by vomiting. Seek medical attention if a large amount is swallowed. Get medical advice and attention if

you feel unwell.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Irritation to eyes, skin and respiratory tract.

Symptoms/injuries after inhalation : Overexposure may be irritating to the respiratory system.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : If a large quantity has been ingested : Abdominal pain; Diarrhea; Nausea;

Vomiting; Tingling in hands and feet; Weak pulse; Circulatory disturbances

Chronic symptoms : Prolonged inhalation of dust may cause respiratory irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Not flammable. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Under conditions of fire this material may produce: Potassium oxides;

Hydrogen chloride; Chlorine gas

Explosion hazard : Product is not explosive.

Reactivity : Stable at ambient temperature and under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Keep upwind. Under conditions of fire this material may produce: Potassium

oxides; Hydrogen chloride; Chlorine gas

Protection during firefighting : Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA).

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not breathe fumes from fires or vapours from decomposition.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection protection

including tight fitting goggles in areas of high dust concentration. Wear NIOSH approved respiratory protective equipment when workplace

conditions warrant use of respirator.

Emergency procedures : Collect as any solid. Ventilate area.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection including

tight fitting goggles in areas of high dust concentration. Wear NIOSH

approved respiratory protective equipment when conditions warrant use of

respirator.

Emergency procedures : If possible, stop flow of product. Contain and collect as any solid. Ventilate

area.

#### 6.2. Environmental precautions

If spill could potentially enter any waterway, including intermittent dry creeks, contact the U.S. COAST GUARD NATIONAL RESPONSE CENTER at 800-424-8802. In case of accident or road spill notify CHEMTREC at 800-424-9300 (in USA) or CANUTEC at 613-996-6666 (in Canada). In other countries call CHEMTREC at (International code) +1-703-527-3887.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain and collect as any solid. Do not allow into drains or water courses or

dispose of where ground or surface waters may be affected.

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Methods for cleaning up : Recover the product by vacuuming, shoveling or sweeping. Avoid

generation of dust during clean-up of spills. If uncontaminated, recover and

reuse as product. If on soil, remove and collect the top 5 cm of soil.

#### 6.4. Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Additional hazards when processed : When heated, material emits irritating fumes.

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures.

Avoid contact with skin and eyes. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

Hygiene measures : Emergency eye wash fountains should be available in the immediate vicinity

of any potential exposure.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store tightly closed in a dry, cool and well-ventilated place. Protect from

moisture.

Special rules on packaging : Avoid contact with aluminum or carbon steel to minimize corrosion.

### 7.3. Specific end use(s)

Fertilizer

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

Highly soluble - No ACGIH TWA, Particulate Not Otherwise Specified (PNOS) not appropriate for highly soluble material.

#### 8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas.

Personal protective equipment : Gloves. Safety glasses. Protective clothing.







Hand protection : Impermeable protective gloves.

Eye protection : Protective goggles.

Skin and body protection : Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of any potential exposure. Wear suitable protective clothing. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice. Wash clothing frequently.

Respiratory protection : Use NIOSH-approved air-purifying or supplied-air respirator where airborne

concentrations of dust are expected to exceed exposure limits.

Environmental exposure controls : Ensure adequate ventilation, especially in confined areas.

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# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Granular solid. Fine to 4 mm size.

Colour : White to red

Odour : Slight oily

Odour threshold : No data available

pH : 7 (approximately)

Relative evaporation rate : No data available

(butylacetate=1)

Melting point : 771 – 773 °C (1420 – 1423 °F)

Freezing point : No data available

Boiling point : 1420 - 1500 °C (2588 - 2732 °F)

Flash point : No data available

Self ignition temperature : Not flammable

Decomposition temperature : No data available

Flammability (solid, gas) : Not flammable

Vapour pressure : 80 Pa at 20°C

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1.98 g/cc

Solubility : Water: 347 g/l (at 20 °C)

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

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Viscosity, dynamic : No data available

Explosive properties : None known.

Oxidising properties : None known.

Explosive limits : Not explosive

9.2. Other information

VOC content : < 0.5 %

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

## 10.2. Chemical stability

Stable at standard temperature and pressure.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Protect from moisture.

#### 10.5. Incompatible materials

Contact with acids liberates toxic gas (chlorine). Contact with hot nitric acid may produce toxic nitrosyl chloride.

### 10.6. Hazardous decomposition products

Contact with strong acids may produce hydrogen chlorine gas.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Potash		
Additional information	Potassium chloride is listed by the FDA as "Generally Recognized as Safe" (GRAS) and may be used as a food additive according to prescribed conditions.	
Potassium chloride (7447-40-7)		
LD50 oral rat	2600 mg/kg	
Sodium chloride (7647-14-5)		
LD50 oral rat	3 g/kg	
LD50 dermal rabbit	> 10 g/kg	
LC50 inhalation rat (mg/l)	> 42 g/m³ (Exposure time: 1 h)	

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Serious eye damage/irritation : Causes eye irritation

pH: 7 (approximately)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single : Not classified

Specific target organ toxicity (single exposure)

скрозагсу

Specific target organ toxicity

(repeated exposure)

: Not classified

Aspiration hazard : Not classified

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecotoxicity:	Acute Toxicity to Fish:	(Lepomis macrochirus) (blue gill) – 96 hour - $LC_{50}$ = 2010 mg/L (ppm KCl)
	Chronic Toxicity to Fish:	No data available
	Acute Toxicity to Aquatic Invertebrates:	(Daphnia magna) - 48 hours - $EC_{50}$ = 337 - 825 mg/L; (Physa heterostropha) - 96 hrs - $LC_{50}$ = 940 mg/L.
	Chronic Toxicity to Aquatic Invertebrates:	No data available
	Toxicity to Aquatic Plants:	(( <i>Nitzschia linearis</i> )diatom) - 5 days- 120 hour $TL_m = 1,337$ ppm KCl; ( <i>Scendesmus subspicatus</i> ) 72 hour - $EC_{50} = 2,500$ mg/L. ( <i>Chlorella vulgaris</i> ) - 3 – 4 months - NOEC = 600 mg KCl/L, LOEL = 700 mg KCl/L.
	Toxicity to Bacteria: (activated)	No data available
	Toxicity to Soil Dwelling Organisms:	No data available
	Toxicity to Terrestrial Plants:	No data available
F	Stability in Water:	Ions can persist, dissociates in water
Environmental Fate:	Stability in Soil:	Binds to clay particles
	Transport and Distribution:	1.51 x 10 <sup>-8</sup> % to air; 45.2% to water; 54.7% to soil; 0.0755% to sediment
Toxicity:	Not toxic to aquatic organisms defined by USEPA	
Degradation Products:	Biodegradation:	No data available
Degradation Froducts.	Photodegradation:	No data available

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# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Sewage disposal recommendations : This material may be hazardous to the aquatic environment. Keep out of

sewers and waterways.

Waste disposal recommendations : Place in an appropriate container and dispose of the contaminated material

at a licensed site.

Additional information : Dispose of waste material in accordance with all local, regional, national,

and international regulations.

# **SECTION 14: Transport information**

In accordance with DOT / TDG / ADR / RID / ADNR / IMDG / ICAO / IATA

#### 14.1. UN number

No dangerous good in sense of transport regulations.

# 14.2. UN proper shipping name

Not applicable

#### 14.2 Additional information

Other information : No supplementary information available.

#### **Overland transport**

No additional information available

### Transport by sea

No additional information available

#### Air transport

No additional information available

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

Potash	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

#### Potassium chloride (7447-40-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Sodium chloride (7647-14-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. US State regulations

The following states have an OSH program approved by OSHA. If you are located in any of these states you may be under state jurisdiction rather than federal jurisdiction and your state may have more stringent requirements than OSHA. You should consult your state regulations to ensure compliance.

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Alaska	Indiana	Minnesota	North Carolina	Utah
Arizona	Iowa	Nevada	Oregon	Vermont
California	Kentucky	New Mexico	Puerto Rico	*Virgin Islands
*Connecticut	Maryland	*New Jersey	South Carolina	Virginia
Hawaii	Michigan	*New York	Tennessee	Washington
*Illinois				Wyoming

<sup>\*</sup>The state plans in these states apply only to public sector employers. In these states private sector employers are subject to USOL – OSHA jurisdiction. All other state plans apply to both public and private sector employers.

# Sodium chloride (7647-14-5)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

# 15.3. Canadian regulations

Potash		
WHMIS Classification Uncontrolled product according to WHMIS classification criteria		
Potassium chloride (7447-40-7)		
Listed on the Canadian DSL (Domestic Sustances List) inventory.		
WHMIS Classification Uncontrolled product according to WHMIS classification criteria		
Sodium chlorida (7647-14-5)		

Sodium chloride (7647-14-5)		
Listed on the Canadian DSL (Domestic Sustances List) inventory.		
WHMIS Classification Uncontrolled product according to WHMIS classification criteria		

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

# **SECTION 16: Other information**

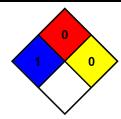
NFPA health hazard : 1 - Exposure could cause irritation but only minor

residual injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure

conditions, and are not reactive with water.



#### Full text of H- phrases:

Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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Previous PotashCorp MSDS Number : MSDS 1 - Potash

SDS US (GHS HazCom 2012)

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