



## Safety Data Sheet GranuPotasse®

SDS Number: TC01 Revision: January 3, 2020

### Section 1: IDENTIFICATION

1.1 Product Name: GranuPotasse®

1.2 Other Identification: Potassium sulfate, granular

Chemical Family: Inorganic salt  
Formula:  $K_2SO_4$

1.3 Recommended Use of Chemical: Fertilizer

1.4 Manufacturer: Tessenderlo Group NV (TKH)  
Bergstraat 32  
B-3945 Ham Belgium  
Information: Tessenderlo Kerley, Inc.  
(602) 889-8300

1.5 Emergency Contact: Tessenderlo Kerley, Inc. (800) 877-1737  
CHEMTREC (800) 424-9300 (Domestic)  
(703) 527-3887 (International)

### Section 2: HAZARD(S) IDENTIFICATION

2.1 Hazard Classification: Health Eye Damage/Irritation Category 2A



Physical      None

**2.2 Signal Word:** Warning**2.3 Hazard Statement(s):** Causes eye irritation**2.4 Symbol(s):**

**2.5 Precautionary Statement(s):** **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Wash hands and face thoroughly with soap and water after handling.

**2.6 Unclassified Hazard(s):** None**2.7 Unknown Toxicity Ingredient:** None

### Section 3: COMPOSITION/INFORMATION on INGREDIENTS

**3.1 Chemical Ingredients:** (See Section 8 for exposure guidelines)

Chemical	Synonym Common Name	CAS No.	EINECS No.	% by Wt.
Sulfuric acid, dipotassium salt	Potassium sulfate	7778-80-5	231-915-5	>85
Potassium hydrogen sulfate	Potassium bisulfate	7646-93-7	231-594-1	<3

### Section 4: FIRST AID MEASURES

**4.1 Symptoms/Effects:**

Acute: Eye contact may cause eye irritation. Repeated or prolonged skin contact may cause skin irritation. Ingestion may irritate the gastrointestinal tract.

Chronic: No known chronic effects.

**4.2 Eyes:** Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to ensure thorough flushing of the entire area of the eye and lids. Obtain medical attention if irritation occurs.

**4.3 Skin:** Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue rinsing. Obtain medical attention if irritation occurs.

**4.4 Ingestion:** If victim is conscious, give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. Obtain medical attention.

- 4.5 Inhalation:** Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start CPR. Obtain immediate medical attention.

## Section 5: FIRE FIGHTING MEASURES

### 5.1 Flammable Properties: (See Section 9, for additional flammable properties)

**NFPA:**                      **Health - 1**      **Flammability - 0**      **Reactivity - 0**

### 5.2 Extinguishing Media:

**5.2.1 Suitable Extinguishing Media:** Not flammable, use media suitable for combustibles involved in the fire.

**5.2.2 Unsuitable Extinguishing Media:** Not applicable.

### 5.3 Protection of Firefighters:

#### 5.3.1 Specific Hazards Arising from the Chemical:

**Physical Hazards:** Avoid raising dust which is irritating to the eyes and respiratory tract.

**Chemical Hazards:** Heating or flames causes release of oxides of sulfur. Sulfur dioxide is highly irritating to the eyes, respiratory tract and moist skin.

#### 5.3.2 Protective Equipment and Precautions for Firefighters:

Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear. Keep containers/storage vessels in fire area cooled with water spray.

## Section 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal Precautions:** Use personal protective equipment specified in Section 8. Isolate the release area and deny entry to unnecessary, unprotected and untrained personnel.

**6.2 Environmental Precautions:** Keep out of "waters of the United States" because of potential aquatic toxicity.

### 6.3 Methods of Containment:

**Small Release:** Confine and absorb small releases with sand, earth or other inert absorbents.

**Large Release:** Stop release if safe to do so. Dike spill area with earth, sand or other inert absorbents to prevent runoff into surface waterways (potential aquatic toxicity), storm drains and sewers.

**6.4 Method for Cleanup:**

**Small Release:** Shovel up contained material and place in drums for disposal as a chemical waste or recycle as a fertilizer as the original product was intended.

**Large Release:** Recover as much of the spilled product as possible with shovel and brooms taking care not to create dust. Use material as originally intended or dispose of as a chemical waste. Treat remaining material as a small release (above),

**Section 7: HANDLING and STORAGE**

**7.1 Handling:** Avoid contact with eyes. Use only in a well-ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated breathing of dust. Avoid prolonged or repeated contact with the skin.

**7.2 Storage:** Store in well-ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store totes and smaller containers out of direct sunlight at moderate temperatures. (See Section 10.5, for materials of construction)

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Exposure Guidelines:**

Chemical	OSHA PELs		ACGIH TLVs	
	TWA	STEL/C	TWA	STEL
Potassium sulfate	None	None	None	None
Potassium bisulfate	None	None	None	None
Particles, NOC (total dust)	15 mg/m <sup>3</sup>	None	None	None

**8.2 Engineering Controls:** Use adequate exhaust ventilation to prevent inhalation of product dust. Keep eye wash/safety shower in areas where product is commonly handled.

**8.3 Personal Protective Equipment (PPE):**

**8.3.1 Eye/Face Protection:** Chemical goggles if dust present.

**8.3.2 Skin Protection:** Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with dust. Wash contaminated clothing prior to reuse.

**8.3.3 Respiratory Protection:** Respiratory protection is based on potential for exposure to product dust.

**8.3.4 Hygiene Considerations:** Common good industrial hygiene practices should be followed, such as washing thoroughly after handling and before eating or drinking.

## Section 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Appearance:	Colorless to white granular crystals
9.2 Odor:	None
9.3 Odor Threshold:	Not applicable
9.4 pH:	3.5 – 4 (1% solution)
9.5 Melting Point/Freezing Point:	1953°F (1067°C)
9.6 Boiling Point:	3072°F (1689°C)
9.7 Flash Point:	Not applicable
9.8 Evaporation Rate:	Not determined
9.9 Flammability:	Not applicable
9.10 Upper/Lower Flammability Limits:	Not applicable
9.11 Vapor Pressure:	Not applicable
9.12 Vapor Density:	Not applicable
9.13 Relative Density:	1.27 (bulk density) 1.4 (tapped density)
9.14 Solubility:	120 g/l @25°C (1.00 lb/gal@77°F)
9.15 Partition Coefficient:	Not applicable
9.16 Auto-ignition Temperature:	Not applicable
9.17 Decomposition Temperature:	Not determined
9.18 Viscosity:	Not determined

## Section 10: STABILITY and REACTIVITY

10.1 Reactivity:	Substance has acid reactions.
10.2 Chemical Stability:	This product is stable under normal (ambient) temperature and pressure.
10.3 Possibility of Hazardous Reactions:	No data available.
10.4 Conditions to Avoid:	Avoid raising dust.
10.5 Incompatible Materials:	High heat or open flames.
10.6 Hazardous Decomposition Products:	Oxides of sulfur.

## Section 11: TOXICOLOGICAL INFORMATION

11.1 Oral:	Oral Rat LD <sub>50</sub> : >2,000 mg/kg bw (OECD 425) (potassium sulfate) Oral Rat LD <sub>50</sub> : 2,340 mg/kg (potassium bisulfate) Oral Rat LD <sub>50</sub> : 6,600 mg/kg (potassium sulfate) Intraperitoneal Rat LD <sub>50</sub> : 1,250 mg/kg (potassium sulfate)
11.2 Dermal:	Dermal Rat LD <sub>50</sub> : >2,000 mg/kg bw (OECD 402) (potassium sulfate) Dermal 15 min. Exp. (OECD 431) "Not irritating" (Potassium sulfate granular) Subcutaneous Guinea pig LD <sub>Lo</sub> : 3 gm/kg (potassium sulfate)

<b>11.3 Inhalation:</b>	Inhalation Rat LD <sub>50</sub> : >1.2mg/l 4 hr. exposure (potassium sulfate)
<b>11.4 Eyes:</b>	Eye 4 hr. exp. (OECD437) "Highly irritating" (potassium sulfate granular) Eye Rabbit "not irritating" (OECD 405) 24/48/72 hr. (Potassium sulfate)
<b>11.5 Chronic/Carcinogenicity:</b>	Not listed in NTP, IARC or by OSHA.
<b>11.6 Teratology:</b>	No data available.
<b>11.7 Reproduction:</b>	Development toxicity NOAEL Rat (male): $\geq$ 1500 mg/kg bw/day (28 days) (potassium sulfate) Development toxicity NOAEL Rate (female): $\geq$ 1500 mg/kg bw/day (53 days) (potassium sulfate) Fertility NOAEL (male/female): $\geq$ 1500 mg/kg bw/day (28 day) (potassium sulfate)
<b>11.8 Mutagenicity (in vitro):</b>	Chinese hamster ovary (CHO) – negative (potassium sulfate) Mouse (lymphoma L5178Y cells) – negative (potassium sulfate) Bacteria (S.typhimurium) – negative (potassium sulfate) Escherichia coli – negative (potassium sulfate)

## Section 12: ECOLOGICAL INFORMATION

<b>12.1 Ecotoxicity:</b>	Fish Acute toxicity, Pimephales promelas, LC <sub>50</sub> : 680 mg/l, 96 hr. fresh water (Potassium sulfate). Fish Acute Toxicity, Lecuciscus idus, LC <sub>50</sub> : 3,500 mg/l, (Potassium bisulfate). Crustacea Acute Toxicity, Daphnia Magna, LC <sub>50</sub> : 720 mg/l, 48 hr., fresh water (Potassium sulfate).
<b>12.2 Persistence &amp; Degradability:</b>	Not applicable
<b>12.3 Bioaccumulative Potential:</b>	No data available.
<b>12.4 Mobility in Soil:</b>	Low potential for adsorption in soil.
<b>12.5 Other Adverse Effects:</b>	None

## Section 13: DISPOSAL CONSIDERATIONS

Consult federal, state and local regulations for disposal requirements.

## Section 14: TRANSPORT INFORMATION

### 14.1 Basic Shipping Description:

<b>14.1.1 Proper Shipping Name:</b>	Potassium sulfate crystals (Not regulated by DOT).
<b>14.1.2 Hazard Classes:</b>	Not applicable
<b>14.1.3 Identification Number:</b>	Not applicable

<b>14.1.4 Packing Group:</b>	Not applicable
<b>14.1.5 Hazardous Substance:</b>	No
<b>14.1.6 Marine Pollutant:</b>	No

**14.2 Additional Information:****14.2.1 Other DOT Requirements:**

<b>14.2.1.1 Reportable Quantity:</b>	Not applicable
<b>14.2.1.2 Placard(s):</b>	Not applicable
<b>14.2.1.3 Label(s):</b>	Not applicable

**14.2.2 USCG Classification:** Not classified

**14.2.3 International Transportation:**

<b>14.2.3.1 IMO:</b>	Not regulated
<b>14.2.3.2 IATA:</b>	Not regulated
<b>14.2.3.3 TDG (Canada):</b>	Not regulated
<b>14.2.3.4 ADR (Europe):</b>	Not regulated
<b>14.2.3.5 ADG (Australia):</b>	Not regulated

**14.2.4 Emergency Response Guide:** No applicable

**14.2.5 ERAP - Canada:** Not applicable

**14.2.6 Special Precautions:** None

<b>Section 15: REGULATORY INFORMATION</b>
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**15.1 U.S. Federal Regulations:**

**15.1.1 OSHA:** This product is considered hazardous under the criteria of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200).

**15.1.2 TSCA:** Product is contained in USEPA Toxic Substance Control Act Inventory.

**15.1.3 CERCLA (Reportable Quantity):** No

**15.1.4 SARA Title III:**

<b>15.1.4.1 Extremely Hazardous Substance (EHS):</b>	No
<b>15.1.4.2 Section 312 (Tier II) Ratings:</b>	Immediate (acute) Yes
	Fire No
	Sudden Release No
	Reactivity No
	Delayed (chronic) No

**15.1.4.3 Section 313 (FORM R):** Not applicable

**15.1.5 RCRA:** Not applicable

**15.1.6 CAA (Hazardous Air Pollutant/HAP):** Not applicable

## 15.2 International Regulations:

### 15.2.1 Canada:

**15.2.1.1 WHMIS:** Not hazardous

**15.2.1.2 DSL/NDSL:** Potassium sulfate is on DSL  
Potassium bisulfate is on DSL

## 15.3 State Regulations:

**15.3.1 CA Proposition 65:** Not applicable

## Section 16: OTHER INFORMATION

**REVISIONS:** This SDS was reformatted to comply with the new Hazard Communication Standard dated March 26, 2012, by the Regulatory Affairs Department of Tessengerlo Kerley, Inc. 11/30/2017.  
Minor administrative changes. 3/17/2018  
Changes to sections 1, 8, 9, 10 and 11. 5/14/2018  
Minor administrative changes. 5/15/2018  
Logo change only. 1/3/2020.

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