

## SAFETY DATA SHEET

Preparation Date: 04/24/2015

Revision Date: 10/16/2018

Revision Number: G2

### 1. IDENTIFICATION

#### Product identifier

**Product code:** P1343  
**Product Name:** POTASSIUM METABISULFITE, CRYSTAL, REAGENT

#### Other means of identification

**Synonyms:** Metabisulfito de potasio (Spanish); Métabisulfite de potassium (French); Dipotassium pyrosulfite; Dipotassium disulfite; Dipotassium metabisulfite; Potassium disulfite; Pyrosulfurous acid, dipotassium salt

**CAS #:** 16731-55-8  
**RTECS #** TT4920000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

|                                   |             |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Respiratory sensitization         | Category 1A |
| Skin sensitization                | Category 1B |

#### Label elements

##### **Danger**

##### **Hazard statements**

Causes serious eye irritation  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 May cause an allergic skin reaction

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#### **Hazards not otherwise classified (HNOC)**

Not Applicable

#### **Other hazards**

May be harmful if swallowed  
May ignite during milling or grinding  
Liberates sulfur dioxide on contact with acids or in fire

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Avoid breathing dust/fume/gas/mist/vapors/spray  
In case of inadequate ventilation wear respiratory protection  
Contaminated work clothing must not be allowed out of the workplace  
Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

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.  
IF ON SKIN: Wash with plenty of water  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse  
IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

| <b>Components</b>       | <b>CAS-No.</b> | <b>Weight %</b> |
|-------------------------|----------------|-----------------|
| Potassium Metabisulfite | 16731-55-8     | 100             |

### **4. FIRST AID MEASURES**

#### **First aid measures**

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Causes serious eye irritation  
May cause an allergic skin reaction  
May cause allergy or asthma symptoms or breathing difficulties if inhaled

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** The product is not flammable.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** No information available.

**Specific hazards:** It may ignite during milling or grinding (when turning it into a powder).

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

#### **Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Store at room temperature in the original container. Store away from incompatible materials. Air sensitive. Heat sensitive.

#### **Incompatible Materials:**

Acids  
Oxidizing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **National occupational exposure limits**

##### **United States**

| Components              | CAS-No.    | OSHA | NIOSH | ACGIH | AIHA WEEL |
|-------------------------|------------|------|-------|-------|-----------|
| Potassium Metabisulfite | 16731-55-8 | None | None  | None  | None      |

##### **Canada**

| Components              | CAS-No.    | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|-------------------------|------------|------------------|---------------------------|------------------|-----------------|
| Potassium Metabisulfite | 16731-55-8 | None             | None                      | None             | None            |

##### **Australia and Mexico**

| Components              | CAS-No.    | Australia | Mexico |
|-------------------------|------------|-----------|--------|
| Potassium Metabisulfite | 16731-55-8 | None      | None   |

### Appropriate engineering controls

#### **Engineering measures to reduce exposure:**

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

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|                                  |  |
|----------------------------------|--|
| <b>Eye protection:</b>           | Safety glasses with side-shields. or Goggles   |
| <b>Skin and body protection:</b> | Chemical resistant apron<br>Gloves<br>Long sleeved clothing  |
| <b>Respiratory protection:</b>   | Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent. |
| <b>Hygiene measures:</b>         | Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |  |   |
|--|--|---|
| <b>Physical state:</b><br>Solid                                | <b>Appearance:</b><br>Crystals. Powder.  | <b>Color:</b><br>White.   |
| <b>Odor:</b><br>Sulfurous.                                     | <b>Taste</b><br>No information available.  | <b>Formula:</b><br>K2S2O5                                       |
| <b>Molecular/Formula weight (g/mole):</b><br>222.33            | <b>Flammability:</b><br>No information available   | <b>Flashpoint (°C/°F):</b><br>No information available.         |
| <b>Flash Point Tested according to:</b><br>Not available       | <b>Autoignition Temperature (°C/°F):</b><br>No information available   | <b>Lower Explosion Limit (%):</b><br>No information available   |
| <b>Upper Explosion Limit (%):</b><br>No information available  | <b>Melting point/range(°C/°F):</b><br>No information available   | <b>Decomposition temperature(°C/°F):</b><br>150°C/302°F         |
| <b>Boiling point/range(°C/°F):</b><br>No information available | <b>Bulk density:</b><br>No information available   | <b>Density (g/cm3):</b><br>No information available             |
| <b>Specific gravity:</b><br>2.34                               | <b>pH:</b><br>No information available   | <b>Vapor pressure @ 20°C (kPa):</b><br>No information available |
| <b>Evaporation rate:</b><br>No information available           | <b>Vapor density:</b><br>2.3   | <b>VOC content (g/L):</b><br>No information available           |
| <b>Odor threshold (ppm):</b><br>No information available       | <b>Partition coefficient (n-octanol/water):</b><br>No information available  | <b>Viscosity:</b><br>No information available                   |
| <b>Miscibility:</b><br>No information available                | <b>Solubility:</b><br>Easily soluble in cold water<br>Easily soluble in hot water<br>Insoluble in Alcohol<br>Soluble in acids<br>Soluble in alkaline |   |

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with acids  
 Reactive with oxidizing agents  
 Liberates sulfur dioxide in contact with acids. It oxidizes to the sulfate in the presence of air

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Incompatible materials. Exposure to air.

**Incompatible Materials:** Acids  
Oxidizing agents

**Hazardous decomposition products:** No information available.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**

Ingestion. Inhalation.

### Acute Toxicity

#### Component Information

Potassium Metabisulfite

CAS-No. 16731-55-8

**LD50/oral/rat** = 1800 mg/kg Oral LD50 Rat (LOLI); 2300 mg/kg (HSDB)

**LD50/oral/mouse** = No information available

**LD50/dermal/rabbit** = No information available

**LD50/dermal/rat** = No information available

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = No information available

#### Product Information

**LD50/oral/rat =**

**VALUE- Acute Tox Oral** = 2300 mg/kg

**LD50/oral/mouse =**

**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**

**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**

**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**

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VALUE-Vapor = No information available  
 VALUE-Gas = No information available  
 VALUE-Dust/Mist = No information available

**LC50/Inhalation/mouse**

VALUE-Vapor = No information available  
 VALUE - Gas = No information available  
 VALUE - Dust/Mist = No information available

**Symptoms**

**Skin Contact:** May cause skin irritation. May cause allergic skin reaction.

**Eye Contact:** Causes serious eye irritation.

**Inhalation** May cause irritation of respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Ingestion** May cause gastrointestinal tract irritation by liberation of Sulfurous Acid. Symptoms may include mouth, throat, stomach, abdominal pain, violent colic, possible gastric hemorrhaging, nausea, vomiting and diarrhea. May affect behavior/central nervous system and cause central nervous system depression/seizures. It may also affect the cardiovascular system (hypotension, tachycardia, cardiovascular collapse). Ingestion of sulfite compounds may cause allergic/hypersensitivity/anaphylactoid reactions in sensitive individuals and some asthmatics. Some asthmatics are said to be sensitive to minute amounts of sulfites in foods. It may cause a worsening of asthma in asthmatics. Individuals sensitive to sulfides may experience stomach upset, tightness in the chest, or wheezing.

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Prolonged or repeated skin contact may cause allergic reaction. Prolonged or repeated skin contact may cause allergic skin reaction. If allergy develops, very low future exposure can cause itching and skin rash. Prolonged or repeated inhalation may cause allergic reaction.

**Sensitization:** May cause sensitization by inhalation and skin contact.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

| Components              | CAS-No.    | IARC   | ACGIH - Carcinogens | NTP        | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|-------------------------|------------|--|---------------------|------------|------------------------|--|--|
| Potassium Metabisulfite | 16731-55-8 | Monograph 54 [1992] Sulfur dioxide and some sulfites bisulfites and metabisulfites | Not listed          | Not listed | Not listed             | Not listed                                     | Not listed                                     |

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

**Reproductive toxicity** No data is available  
**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

*Potassium Metabisulfite - 16731-55-8*

**Freshwater Fish Species Data:** 460 - 1000 mg/L LC50 Brachydanio rerio 96 h static 1 220 - 460 mg/L LC50 Leuciscus idus 96 h static 1

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**  
Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**  
Empty containers should be taken for local recycling, recovery or waste disposal

| Components              | CAS-No.    | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|-------------------------|------------|------------------------|------------------------|------------------------|------------------------|
| Potassium Metabisulfite | 16731-55-8 | None                   | None                   | None                   | None                   |

**14. TRANSPORT INFORMATION**

**DOT**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Class** No information available  
**Packing group:** No information available  
**Emergency Response Guide** No information available

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**Number**  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** No Information available  
**Symbol(s):** No information available  
**Description:** No information available

**TDG (Canada)**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant** No Information available  
**Description:** No information available

**ADR**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available

**IMO / IMDG**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant** No information available

**RID**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**ICAO**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**IATA**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**ERG Code:** No information available  
**Special Provisions** No information available

## 15. REGULATORY INFORMATION

### International Inventories

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| Components              | CAS-No.    | U.S. TSCA     | KOREA KECL       | Philippines (PICCS) | Japan ENCS  | CHINA   | Australia (AICS) | EINECS-No.        |
|-------------------------|------------|---------------|------------------|---------------------|-------------|---------|------------------|-------------------|
| Potassium Metabisulfite | 16731-55-8 | PresentACTIVE | Present KE-12700 | Present             | Not present | Present | Present          | Present 240-795-3 |

## U.S. Regulations

### Potassium Metabisulfite

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 182.3637

FDA - 21 CFR - Total Food Additives 182.3637

- List Sourced from EAFUS

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Components              | CAS-No.    | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|-------------------------|------------|------------|------------------------|----------------------------|-------------------------------|
| Potassium Metabisulfite | 16731-55-8 | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |

## CERCLA/SARA

| Components              | CAS-No.    | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|-------------------------|------------|---|---|--|---------------------------------|------------------------------------|
| Potassium Metabisulfite | 16731-55-8 | None  | None  | None   | None                            | None                               |

## U.S. TSCA

| Components              | CAS-No.    | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|-------------------------|------------|---|--|
| Potassium Metabisulfite | 16731-55-8 | Not Applicable  | Not Applicable                         |

## Canada

### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information: Not a dangerous product according to HPR classification criteria.

Component  
Potassium Metabisulfite  
16731-55-8 ( 100 )

WHMIS 2015 Hazard Classification  
Not a dangerous product according to HPR classification criteria

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

| Components              | WHMIS Ingredient Disclosure List - |
|-------------------------|------------------------------------|
| Potassium Metabisulfite | 1 %                                |

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## Inventory

|                         |            |              |               |
|-------------------------|------------|--------------|---------------|
| Components              | CAS-No.    | Canada (DSL) | Canada (NDSL) |
| Potassium Metabisulfite | 16731-55-8 | Present      | Not Listed    |

|                         |                |  |
|-------------------------|----------------|--|
| <b>Components</b>       | <b>CAS-No.</b> | <b>CEPA Schedule I - Toxic Substances</b>                          |
| Potassium Metabisulfite | 16731-55-8     | Not listed   |
| <b>Components</b>       | <b>CAS-No.</b> | <b>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</b> |
| Potassium Metabisulfite | 16731-55-8     | Not listed   |

## EU Classification

### EU GHS - SV - CLP 1272/2008

|                         |            |                               |
|-------------------------|------------|-------------------------------|
| Components              | CAS-No.    | EU GHS - SV - CLP (1272/2008) |
| Potassium Metabisulfite | 16731-55-8 | No information                |

### EU - CLP (1272/2008)

### R-phrase(s)

R31 - Contact with acids liberates toxic gas.  
R36/37/38 - Irritating to eyes, respiratory system and skin.

### S-phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37 - Wear suitable protective clothing and gloves.

| Components              | CAS-No.    | Classification | Concentration Limits: | Safety Phrases |
|-------------------------|------------|----------------|-----------------------|----------------|
| Potassium Metabisulfite | 16731-55-8 |                | No information        |                |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

### Indication of danger:

Xi - Irritant.

## 16. OTHER INFORMATION

**Preparation Date:** 04/24/2015  
**Revision Date:** 10/16/2018  
**Prepared by:** Sonia Owen

### Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

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**End of Safety Data Sheet**