

# SAFETY DATA SHEET

**Preparation Date:** No data available

**Revision Date:** 04/24/2015

**Revision Number:** G1

**Product identifier**

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

**Other means of identification**

**Synonyms:** 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 Chemicals and Laboratory Products, Inc.  
 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 by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

**Label elements**

## Danger

### Hazard statements

May be harmful if swallowed  
Causes serious eye irritation  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May ignite in milling or grinding  
Liberates sulfur dioxide on contact with acids or in fire



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

May be harmful if inhaled

### 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 should not be allowed out of the workplace  
Wear protective gloves/protective clothing/eye protection/face protection

### Precautionary Statements - Response

Specific treatment (see .? on this label)  
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 soap and water  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse  
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position 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

Components	CAS-No.	Weight %	Trade Secret
Potassium Metabisulfite 16731-55-8	16731-55-8	100	*

## 4. FIRST AID MEASURES

### First aid measures

#### General Advice:

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

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#### 4. FIRST AID MEASURES

<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.
<b>Eye Contact:</b>	Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion:</b>	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**

<b>Symptoms</b>	Causes serious eye irritation. May cause allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May be harmful if inhaled. May be harmful if swallowed.
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#### **Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician:</b>	Treat symptomatically
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#### **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**

<b>Suitable Extinguishing Media:</b>	The product is not flammable.
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<b>Unsuitable Extinguishing Media:</b>	No information available.
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#### **Specific hazards arising from the chemical**

<b>Hazardous Combustion Products:</b>	No information available.
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<b>Specific hazards:</b>	When heated to decomposition it emits toxic fumes It may ignite during milling or grinding (when powdering it)
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#### **Special Protective Actions for Firefighters**

<b>Specific Methods:</b>	No information available.
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<b>Special Protective Equipment for Firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. 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 vapours/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 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	OSHA	NIOSH	ACGIH	AIHA WHEEL
Potassium Metabisulfite - 16731-55-8	None	None	None	None

#### **Canada**

Components	Alberta	British Columbia	Ontario	Quebec
Potassium Metabisulfite - 16731-55-8	None	None	None	None

#### **Australia and Mexico**

Components	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

<b>Eye protection:</b>	Safety glasses. Safety glasses with side-shields.
<b>Skin and body protection:</b>	Chemical resistant apron. Gloves. Long sleeved clothing.
<b>Respiratory protection:</b>	Effective dust mask. Wear respirator with dust filter..
<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> Solid.	<b>Appearance:</b> Crystals. Powder.	<b>Color:</b> White.
<b>Odor:</b> Sulfurous.	<b>Taste</b> No information available	<b>Molecular/Formula weight:</b> 222.33
<b>Formula:</b> K <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	<b>Flash point (°C):</b> No data available	<b>Flashpoint (°C/°F):</b> No information available.
<b>Flash Point Tested according to:</b> Not available	<b>Lower Explosion Limit (%):</b> No information available	<b>Upper Explosion Limit (%):</b> No information available
<b>Autoignition Temperature (°C/°F):</b> No information available	<b>pH:</b> No information available	<b>Melting point/range(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> No information available	<b>Decomposition temperature(°C/°F):</b> 150°C/302°F	<b>Bulk density:</b> No information available
<b>Specific gravity:</b> 2.34	<b>Density (g/cm<sup>3</sup>):</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> 2.3	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Easily soluble in cold water Easily soluble in hot water Insoluble in alcohol Soluble in acids Soluble in alkaline	

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with acids

Reactive with oxidizing agents

Liberates sulfur dioxide in contact with acids. Air sensitive. Moisture sensitive. It oxidizes to in air to sulfate, more readily in presence of moisture

### 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. Exposure to moisture.

#### 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 - 16731-55-8*

**LD50/oral/rat** = = 1800 mg/kg Oral LD50 Rat

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

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

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

**LD50/oral/mouse** =

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

**LD50/dermal/rabbit**

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

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**LD50/dermal/rat****VALUE -Acute Tox Dermal** = No information available**LC50/inhalation/rat****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 allergic skin reaction.**Eye Contact:** Causes serious eye irritation.

**Inhalation** May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
**Ingestion** May cause gastrointestinal tract irritation with abdominal pain, nausea, vomiting and diarrhea. May cause allergic/hypersensitivity/anaphylactoid reaction. 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. Extremely large concentrations may produce central nervous system, seizures, hypotension, tachycardia, and cardiovascular collapse.

**Aspiration hazard** No information available**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Chronic Toxicity** No information available**Sensitization:** No information available**Mutagenic Effects:** No information available**Carcinogenic effects:** Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Potassium Metabisulfite	Not listed	Monograph 54 [1992] Sulfur dioxide and some sulfites bisulfites and metabisulfites	Not listed	Not listed	Not listed	Not listed

**Reproductive toxicity** No data is available**Reproductive Effects:** No information available**Developmental Effects:** No information available**Teratogenic Effects:** No information available**Product code:** P1343**Product name:** POTASSIUM  
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## 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.

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**Freshwater Fish Species Data:** 220 - 460 mg/L LC50 Leuciscus idus 96 h static 1  
460 - 1000 mg/L LC50 Brachydanio rerio 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	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Potassium Metabisulfite	None	None	None	None

## 14. TRANSPORT INFORMATION

### DOT

UN-No: Not Regulated  
Proper Shipping Name: No information available  
Hazard Class: No information available  
Subsidiary Risk: No information available  
Packing Group: None  
ERG No: No information available  
Marine Pollutant: No data available  
DOT RQ (lbs): No information available

### TDG (Canada)

UN-No: Not Regulated

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## 14. TRANSPORT INFORMATION

<b>Proper Shipping Name:</b>	No information available
<b>Hazard Class:</b>	No information available
<b>Subsidiary Risk:</b>	No information available
<b>Packing Group:</b>	No information available
<b>Description:</b>	No information available

### ADR

<b>UN-No:</b>	Not Regulated
<b>Proper Shipping Name:</b>	No information available
<b>Hazard Class:</b>	No information available
<b>Packing Group:</b>	No information available
<b>Subsidiary Risk:</b>	No information available
<b>Classification Code:</b>	No information available
<b>Description:</b>	No information available
<b>CEFIC Tremcard No:</b>	No information available

### IMO / IMDG

<b>UN-No:</b>	Not Regulated
<b>Proper Shipping Name:</b>	No information available
<b>Hazard Class:</b>	No information available
<b>Subsidiary Risk:</b>	No information available
<b>Packing Group:</b>	No information available
<b>Description:</b>	No information available
<b>IMDG Page:</b>	No information available
<b>Marine Pollutant</b>	No information available
<b>MFAG:</b>	No information available
<b>Maximum Quantity:</b>	No information available

### RID

<b>UN-No:</b>	Not Regulated
<b>Proper Shipping Name:</b>	No information available
<b>Hazard Class:</b>	No information available
<b>Subsidiary Risk:</b>	No information available
<b>Packing Group:</b>	No information available
<b>Classification Code:</b>	No information available
<b>Description:</b>	No information available

### ICAO

<b>UN-No:</b>	Not Regulated
<b>Proper Shipping Name:</b>	No information available
<b>Hazard Class:</b>	No information available
<b>Subsidiary Risk:</b>	No information available
<b>Packing Group:</b>	No information available
<b>Description:</b>	No information available

### IATA

<b>UN-No:</b>	Not Regulated
<b>Proper Shipping Name:</b>	No information available
<b>Hazard Class:</b>	No information available
<b>Subsidiary Risk:</b>	No information available
<b>Packing Group:</b>	No information available
<b>Description:</b>	No information available

## 15. REGULATORY INFORMATION

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## 15. REGULATORY INFORMATION

### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Potassium Metabisulfite	Present	Present KE-12700	Present	Present (1)-453	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

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

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

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

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

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Potassium Metabisulfite	Not Listed	Not Listed	Not Listed	Not Listed

### CERCLA/SARA

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPOs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
Potassium Metabisulfite	None	None	None	None	None

### U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Potassium Metabisulfite	Not Applicable	Not Applicable

### Canada

**WHMIS hazard class:**

D2B Toxic materials

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Potassium Metabisulfite	1 %

### Inventory

Components	Canada (DSL)	Canada (NDSL)
Potassium Metabisulfite	Present	Not Listed

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Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Potassium Metabisulfite	Not listed	Not listed

#### EU Classification

##### R-phrases(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	Classification	Concentration Limits:	Safety Phrases
Potassium Metabisulfite		No information	

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

##### Indication of danger:

None.

#### 16. OTHER INFORMATION

## 16. OTHER INFORMATION

**Revision Date:** 04/24/2015  
**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.

**End of Safety Data Sheet**