



Material Safety Data Sheet

LA1631
Potassium Metabisulfite

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Id: LA1631

Product Name: Potassium Metabisulfite

Synonyms: Potassium Disulfite ; Potassium Pyrosulfite.

Chemical Family: None Known

Application: Reducing agent.

Distributed By:

Univar Canada Ltd.
9800 Van Horne Way
Richmond, BC
V6X 1W5

Prepared By: The Safety, Health and Environment Department of Univar Canada Ltd.

Preparation date of MSDS: 03 July 2009

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percentage (W/W)	LD50s and LC50s Route & Species:
Potassium Metabisulfite 16731-55-8	90-100	Oral LD50 : 2300 mg/kg (Rat)
Sodium Metabisulfite 7681-57-4	1-5	Oral LD50 (Rat) = 1131 mg/kg Dermal LD50 (Rat) > 2 g/kg

Note: No additional remark.

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Eye Contact: Causes eye irritation. May cause permanent eye damage.

Skin Contact: Prolonged contact can cause skin irritation. May cause sensitization by skin contact.

Inhalation: Causes irritation of the lungs and respiratory tract. May cause severe or deadly allergic reactions in some asthmatics and sulfite sensitive individuals.

Ingestion: Irritation of the mouth, throat, and stomach. May cause pain, nausea, vomiting and diarrhea.

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact: Flush skin with large amounts of water. If irritation persists, get medical attention.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Guard against aspiration into lungs by having the individual turn on to their left side.

Notes to Physician: Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Flash Point: None.

Flash Point Method: Not applicable.

Autoignition Temperature: Not available.

Flammable Limits in Air (%): Not Available.

Extinguishing Media: Foam. Water.

Special Exposure Hazards: Potassium disulfite is a reducing agent. It reacts with oxidizing materials, e.g. nitrites and nitrates and may ignite or even explode. In contact with small amounts of water, heat is given off.

Hazardous Decomposition/Combustion Materials (under fire conditions): Sulphur dioxide.

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATINGS FOR THIS PRODUCT ARE: HEALTH 2, FLAMMABILITY 0, INSTABILITY 0

HMIS RATINGS FOR THIS PRODUCT ARE: HEALTH 2, FLAMMABILITY 0, REACTIVITY 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate protective equipment.

Environmental Precautionary Measures: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Consult local authorities.

Procedure for Clean Up: Scoop up or vacuum up and place in an appropriate closed container. Avoid raising dust. Flush area with water to remove trace residue.

7. HANDLING AND STORAGE

Handling: Avoid breathing in dust. Avoid contact with eyes, skin and clothing. Protect from moisture. Avoid dust generation and provide for room ventilation during handling.

Storage: Store in a cool, dry, well ventilated area. Protect from contact with acids and oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Respiratory Protection: For conditions of use where exposure to dust is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. For emergencies or instances where the exposure levels are not known, use a full face, positive pressure, air supplied respirator.

Gloves:

Appropriate chemical resistant gloves should be worn. Rubber gloves.

Skin Protection: Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Eyes: Safety glasses with side shields or chemical goggles.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Potassium Metabisulfite	Not available.	Not available.	Not Available.
Sodium Metabisulfite	5 mg/m ³ TLV-TWA	5 mg/m ³ TWA	Not Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder.

Colour: White

Odour: Faint Sulphur dioxide.

pH 3.5 - 4.5 (5% (m))

Specific Gravity: 2.3

Boiling Point: Decomposition at 150°C / 302°F

Freezing/Melting Point: 190°C / 374°F

Vapour Pressure: Not Available.

Vapour Density: Not Available.

% Volatile by Volume: Not Available.

Evaporation Rate: Not Available.

Solubility: Soluble in water.

VOCs: Not Available.

Viscosity: Not Available.

Molecular Weight: Not Available.

Other: Not Available.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Temperatures over >150 °C. To avoid thermal decomposition do not overheat.

Materials to Avoid: Strong oxidizers. Acids. Nitrites. Nitrates. Sulphides. Metals.

Hazardous Decomposition Products: Liberates toxic sulfur dioxide gas when in contact with acids.

Additional Information:

No additional remark.

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: Irritation of the mouth, throat, and stomach. May cause pain, nausea, vomiting and diarrhea.

Skin Contact: Prolonged contact can cause skin irritation. May cause sensitization by skin contact.

Inhalation: Causes irritation of the lungs and respiratory tract. May cause severe or deadly allergic reactions in some asthmatics and sulfite sensitive individuals.

Eye Contact: Causes eye irritation. May cause permanent eye damage.

Additional Information:**Acute Test of Product:****Acute Oral LD50:** Oral LD50 : 2300 mg/kg (Rat)**Acute Dermal LD50:** Not Available.**Acute Inhalation LC50:** Not Available.**Carcinogenicity:**

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Potassium Metabisulfite	Group 3	Not listed.
Sodium Metabisulfite	Group 3	A4 - Not Classifiable as a Human Carcinogen

Carcinogenicity Comment: No additional information available.**Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity:** The available studies have not shown harmful effects on fertility. Not expected to be a developmental toxicant. Has shown teratogenic effects in laboratory animals.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Potassium Metabisulfite	LC50 (Leuciscus idus) 220 - 460 mg/L LC50 (Brachydanio rerio) 460 - 1000 mg/L	Not Available.	Not Available.
Sodium Metabisulfite	LC50 (Lepomis macrochirus) 32 mg/L	Not Available.	EC50 (Scenedesmus subspicatus) 40 mg/L EC50 (Scenedesmus subspicatus) 48 mg/L

Other Information: Biodegradation: Inorganic product which cannot be eliminated from water by biological purification processes.

Bioaccumulation: No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

Higher concentrations of the substance may cause a strong chemical oxygen consumption in biological sewage-treatment plants and/or waterways. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.**Contaminated Packaging:** Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

DOT (U.S.):**DOT Shipping Name:** Not Regulated.**DOT Hazardous Class:** Not Applicable.**DOT UN Number:** Not Applicable.**DOT Packing Group:** Not Applicable.**DOT Reportable Quantity (lbs):** Not Available.**Note:** No additional remark.**Marine Pollutant:** No.**TDG (Canada):**

14. TRANSPORT INFORMATION

TDG Shipping Name: Not Regulated.

Hazard Class: Not Applicable.

UN Number: Not Applicable.

Packing Group: Not Applicable.

Note: No additional remark.

Marine Pollutant: No.

15. REGULATORY INFORMATION

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Note: Not available.

U.S. Regulatory Rules

Ingredients	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Potassium Metabisulfite	Not Listed.	Not Listed.	Not Listed.
Sodium Metabisulfite	Not Listed.	Not Listed.	Not Listed.

California Proposition 65: Not Listed.

MA Right to Know List: Listed.

New Jersey Right-to-Know List: Listed.

Pennsylvania Right to Know List: Listed.

WHMIS Hazardous Class:

D2B TOXIC MATERIALS



16. OTHER INFORMATION

Additional Information:

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

Disclaimer:

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*****END OF MSDS*****