



## Safety Data Sheet

### Section 1: Identification

Trade Name: Potassium benzoate

Synonyms: Potassium benzoate

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### Section 2: Hazard(s) Identification

Potential physical and environmental effects: May form combustible (explosive) dust-air mixtures.

Potential health effects:

Acute health effects: Causes eye irritation. Dust inhalation may cause respiratory irritation. May cause skin irritation.

Ingestion may cause irritation.

Chronic health effects: Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Carcinogenic status: Not listed or regulated by IARC, NTP, OSHA, or ACGIH.

Reproductive effects: None Expected

See Section 11 for toxicological information.

### Section 3: Composition/Information on Ingredients

Chemical Name	CAS No	% Content	
Potassium benzoate	0000582-25-2	60-100	

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

### Section 4: First-Aid Measures

If irritation or other symptoms (as noted above) occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

Eye contact: Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen

(15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion.

Skin contact: Wash the affected area thoroughly with plenty of soap and water. Get medical attention if symptoms occur. Inhalation: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed: Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact.

Indication of any immediate medical attention and special treatment needed: No Additional Information

## **Section 5: Fire-Fighting Measures**

NFPA flammability class: N/A (Combustible solid)

Extinguishing media: Avoid hose streams or any method which will create dust clouds. Use water spray, dry chemical, or foam. Carbon dioxide may be ineffective on larger fires due to a lack of cooling capacity which may result in reignition. Special protective equipment and precautions for fire fighters: Water spray (fog) can be used to absorb heat and to cool and protect surrounding exposed material. Avoid hose streams or any method which will create dust clouds. Wear self-contained breathing apparatus

(SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

Specific hazards arising from the chemical: Concentrated dust/air combinations may produce explosive conditions. As with all organic dusts, fine particles suspended in air in critical proportions and in the presence of an ignition source may ignite and/or explode. Dust may be sensitive to ignition by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. As a precaution, implement standard safety measures for handling finely divided organic powders. See Section 7 for suggested measures.

Particle size variation is considered a critical factor in regards to dust explosion hazard information. Results applicable as follows: sample

particle size <75 µm, 0.1% moisture content. Sample tested is not typical of product.:

- Minimum ignition energy (dust cloud): 50-100 mJ
- Minimum explosive concentration: 50-60 g/m<sup>3</sup>
- Maximum rate of pressure rise: 581 bars/sec @ 750 g/m<sup>3</sup>
- Maximum pressure of explosion: 7.2 bars-gauge @ 500 g/m<sup>3</sup>
- Deflagration Index, K<sub>st</sub> (estimate): 158 bar-m/sec
- Volume resistivity (ambient relative humidity): 2.5 x 10<sup>(10)</sup> ohm-m
- Volume resistivity (low relative humidity): 6.3 x 10<sup>(12)</sup> ohm-m

- Charge decay (ambient relative humidity): 1 second
- Charge decay (low relative humidity): 752 seconds

See section 9 for additional information.

## **Section 6: Accidental Release Measures**

Personal precautions, protective equipment and emergency procedures: See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources. If inhalation of dust cannot be avoided, wear an approved particulate respirator. Personal Protective Equipment must be worn.

Environmental precautions: Do not flush product into public sewer, water systems or surface waters.

Methods and material for containment and cleaning up: Contain spill. Wear proper personal protective clothing and equipment. Using care to avoid dust generation, vacuum or sweep into a closed container for reuse or disposal. Use approved industrial vacuum cleaner for removal. Avoid causing dust. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

## **Section 7: Handling and Storage**

Precautions for safe handling: As with any chemical product, use good laboratory/workplace procedures.

Wash thoroughly after

handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid drinking, tasting, swallowing or ingesting this product. Avoid routine inhalation of dust of any kind. Exercise care when emptying containers, sweeping, mixing or doing other tasks which can create dust. Provide eyewash fountains and safety showers in the work area.

As a precaution to control dust explosion potential, implement the following safety measures: Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.). In general, dust of organic materials is a static charge generator which may be ignited by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. Use spark-proof tools and equipment. Bond, ground and properly vent conveyors, dust control devices and other transfer equipment. Prohibit flow of polymer, powder or dust through non-conductive ducts, vacuum hoses or pipes, etc.; only use grounded, electrically conductive transfer lines when pneumatically conveying product. Good housekeeping and controlling of dusts are necessary for safe handling of product. Prevent accumulation of dust (e.g., well-ventilated conditions, promptly vacuuming spills, cleaning overhead horizontal surfaces, etc.). A properly engineered explosion suppression system must be considered. See standards such as the National Fire Protection Association NFPA 654, "Standard for the

Prevention of Dust Explosions in the Plastics Industry"; NFPA 69, "Explosion Prevention Systems"; NFPA 68, "Explosion Venting Protection"; NFPA 77, "Static Electricity" and other standards as the need exists. Conditions for safe storage, including any incompatibilities: Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container without commercial cleaning or reconditioning. Product will absorb water vapor (hygroscopic).

## Section 8: Exposure Controls/Personal Protection

Control parameters:

Chemical Name	ACGIH - TWA -----	ACGIH - STEL -----	OSHA - TWA -----	OSHA - STEL -----	MEXICO
Potassium benzoate	N/E	N/E	N/E	N/E	N/E

N/E=Not established (no exposure limits established for listed substances for listed country/region/organization).

Notes: PNOS: ACGIH has recommended the following exposure limits for Particulates (insoluble or poorly soluble) not otherwise specified

(PNOS): 10 mg/m<sup>3</sup> TWA (inhalable particles), 3 mg/m<sup>3</sup> TWA (respirable particles). OSHA exposure limits for Particulates not otherwise regulated are 15 mg/m<sup>3</sup> TWA (total dust) and 5 mg/m<sup>3</sup> TWA (respirable fraction).

Appropriate engineering controls: Always provide effective general and, when necessary, local exhaust ventilation to draw dust away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Bond, ground, and properly vent conveyors, dust control devices and other transfer equipment.

Prohibit flow of powder or dust through non-conductive ducts, vacuum hoses, or pipes, etc. Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.). (Ventilation guidelines/techniques may be found in publications such as Industrial Ventilation: American Conference of Governmental Industrial Hygienists, 1330 Kemper Meadow Drive, Cincinnati, OH, 45240-1634, USA.)

(<http://www.acgih.org/home.htm>).

Eye/face protection: Safety glasses or goggles required.

Skin and body protection: Wear protective gloves. Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

Respiratory protection: Respiratory protection is not needed with proper ventilation. If inhalation of dust cannot be avoided, wear an approved particulate respirator. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

General protection: Eyewash fountains and safety showers are recommended in the work area.

## Section 9: Physical and Chemical Properties

Form Granules/ powder	pH Not Available
Appearance White	Specific gravity 1.5
Odor Odorless	%Volatile by weight 0%
Solubility in water Appreciable	VOC 0%
Evaporation rate Not Available	Flash point >212 °F (>100 °C) Estimated
Vapor pressure Negligible @ 20 °C	Boiling Point °F Not Available
	Boiling Point °C Not Available
Partition coefficient -2.27 (calculated)	Oxidizing properties Not oxidizing
Vapor Density Not Available	Flammability
	(solid, gas) May form combustible (explosive) dust-air mixtures.
Melting point / Freezing point >300 °C (>572 °F)	Explosive range LEL Not Available
	UEL Not Available
Autoignition Temperature >510 °C (>950 °F)	Decomposition temperature Not Available
Viscosity Not Available	

Other information: Amounts specified are typical and do not represent a specification.

## Section 10: Stability and Reactivity

Reactivity: None known.

Chemical stability: This product is stable.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Excessive heat and ignition sources. Contact with water or moist air. Avoid static discharge. Avoid dust formation.

Incompatible materials: Avoid strong acids and oxidizing agents.

Hazardous decomposition products: Carbon dioxide and carbon monoxide.

Notes: No Additional Information.

## Section 11: Toxicological Information

Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

Information on toxicological effects:

General: No Additional Information

Inhalation: Dust inhalation may cause respiratory irritation.

Eyes: Causes eye irritation.

Skin: May cause skin irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion: Ingestion may cause irritation.

Acute toxicity information:

Chemical Name	LC50 Inhalation	Species	LD50 Oral	Species	LD50 Skin	Species
Potassium benzoate	>12.2 mg/l (no mortality, based on benzoic acid)	Rat/ adult	>10000 mg/kg	Rat/ adult	>2000 mg/kg (based on benzoic acid)	Rabbit/ adult
Chemical Name	LC50 Inhalation	Species	LD50 Oral	Species	LD50 Skin	Species
Potassium benzoate	N/E		>2000 mg/kg (based on sodium benzoate)	Rat/ adult	N/E	
Chemical Name	Eye Irritation	Species/Dose	Skin Irritation	Species/Dose	Skin Sensitization	Species/Dose
Potassium benzoate	Moderate irritant	Similar materials	Slight irritant	Similar materials	Non-sensitizer	Similar material (s)

POTASSIUM BENZOATE: The following is data for sodium benzoate. Eye irritation: Moderate irritation. Skin irritation: Slight to non-irritating. A clinical dermatological using 5% sodium benzoate in petrolatum showed positive results in 0.2% of the patients. BENZOIC ACID AND BENZOATE SALTS: Benzoic acid and sodium benzoate are known to cause nonimmunologic immediate contact reactions. This effect is scarce in healthy subjects, while in patients with frequent urticaria or asthma, symptoms or exacerbation of the symptoms were observed.

SODIUM BENZOATE AND POTASSIUM BENZOATE: The following is data for sodium benzoate. Repeated dose oral toxicity studies for salts of benzoic acids: NOAEL (no-observed-adverse-effect-level) >1000 mg/kg/day. BENZOIC ACID AND BENZOATE SALTS: At higher doses (oral) increased mortality, reduced weight gain, convulsions (central nervous system effects), liver and kidney effects were observed. Studies of benzoic acid and sodium benzoate in the Ames point mutation assay do not show evidence of mutagenicity. However, some studies have been reported to be positive in the less commonly used Bacillus

subtilus recombination assay. In a number of cases adverse effects on the chromosome could be noticed, however also negative and/or equivocal results were reported. However many higher-level in vivo tests (clastogenicity inclusive) were negative. Benzoic acid and sodium benzoate exhibit no genotoxicity in several in-vivo assays.

Benzoic acid and sodium benzoate exhibit no carcinogenicity. Reproductive toxicity (benzoic acid), 4-generation oral study in rats: NOAEL (no-observed adverse-effect-level) >750 mg/kg/day. Developmental toxicity: NOEL (no-observed-effect-level) of 500 mg/kg/day can be established for developmental effects.

## Section 12: Ecological Information

Ecotoxicity: No ecological testing has been conducted on this product.

Chemical Name	Fish 96 hour LC50	Species	Fish 96 hour LC50	Species
Potassium benzoate	>100 mg/L (similar materials)	Pimephalis promelas (Fathead minnow)	N/E	
Chemical Name	Invertebrates 48 hour EC50	Species	Invertebrates 24 hour EC50	Species
Potassium benzoate	>100 mg/L (similar materials)	Daphnia magna	N/E	
Chemical Name	Algal 96 hour EC50	Species	Algal 72 hour EC50	Species
Potassium benzoate	>100 mg/L	Calculated	N/E	
Persistence and degradability:				
Chemical Name	Biodegradation			
Potassium benzoate	Readily biodegradable			
Bioaccumulative potential:				
Chemical Name	Bioconcentration Factor (BCF)	Log Kow		
Potassium benzoate	N/E	-2.27		
Mobility in soil:				
Chemical Name	Mobility in soil (Koc/Kow)			

Potassium benzoate	14.5 (calculated)			
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Other adverse effects: No Additional Information

### Section 13: Disposal Considerations

Although this product is not defined or designated as hazardous by current provisions of the Federal (EPA) Resource Conservation and Recovery Act (RCRA, 40CFR261), recognize that in appropriate dust/air ratio, dust cloud in air may have explosion potential. Incinerate or landfill waste in a properly permitted facility in accordance with federal, state and local regulations.

### Section 14: Transport Information

The information below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

UN/NA Number: N/A

U.S. DOT Class: N/A

IMDG Class: N/A

Packing Group: N/A ICAO/IATA

Class: N/A TDG

Class: N/A ADR/RID

Class: N/A

Proper shipping name: Not regulated - See Bill of Lading for Details

Environmental hazards:

Marine pollutant: Not Applicable

Hazardous substance (USA): Not Applicable

Special precautions for user: Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not Applicable

Notes: No Additional Information

### Section 15: Regulatory Information

Safety, health and environment regulations/legislation specific for the product:

U.S. federal and state regulations/legislation:

This MSDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication



Standard, 29  
CFR 1910.1200.

U.S. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Reportable Quantity (RQ): Not Applicable

U.S. Superfund Amendments and Reauthorization Act (SARA):

SARA Title III Section 312 Hazard Category (40 CFR 370): Immediate health hazard

SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372: None Known

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer: None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards: None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

Notes: No Additional Information

The chemical identity of some or all components present is confidential business information (trade secret) and is being withheld as permitted by 29CFR1910.1200 (i).

Notes: No Additional Information

Canadian regulations/legislation: Canadian Ingredient Disclosure List: The following components are on the Canadian Ingredient Disclosure List (WHMIS): None Listed

Canadian Workplace Hazardous Material Information System (WHMIS) classification: D2B

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

Notes: No Additional Information

Chemical inventories:

#### Regulation Status

Canadian Domestic Substances List (DSL): Y

Canadian Non-Domestic Substances List (NDL): N

European Inventory of Existing Chemical Substances (EINECS): Y

European List of Notified Chemical Substances (ELINCS): N

U.S. Toxic Substances Control Act (TSCA): Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the

component has not been reviewed.

Chemical inventory notes: No Additional Information

Notes: No Additional Information

Notes: No Additional Information

#### HMIS Rating

Health: 2 Flammability: 1 Reactivity: 0 Personal Protection: X

#### NFPA Rating

Health: 2 Flammability: 1 Reactivity: 0

Key: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme. An asterisk appearing after the HMIS Health numerical rating denotes a chronic hazard.

Hazardous Materials Identification System (HMIS), National Paint and Coating Association, rating applies to product "as packaged" (i.e., ambient temperature). Ratings are based upon HMIS® III and NFPA 704 (2007). An asterisk appearing after the HMIS Health® III numerical rating denotes a chronic hazard. National Fire Protection Association (NFPA) rating identifies the severity of hazards of material during a fire emergency (i.e., "on fire").

#### Legend

\* : Trademark owned by Emerald Performance Materials, LLC.

ACGIH: American Conference of Governmental Industrial Hygienists

A1: Confirmed human carcinogen

A2: Suspected human carcinogen

A3: Animal carcinogen

CAS No: Chemical Abstract Service Registry Number

ADR/RID: European dangerous goods transport road and rail regulations

CERCLA: Comprehensive Environmental Resonse, Compensation and Liability Act (U.S. EPA)

DOT: Department of Transportation (U.S.)

EPA: Environmental Protection Agency (U.S.)

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

Group 1: Carcinogenic to humans

Group 2A: Probably carcinogenic to humans

Group 2B: Possibly carcinogenic to humans

Group 3: Unclassified as a carcinogen to humans

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods code

MSDS: Material Safety Data Sheet

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

N/A: Not Applicable

N/E: None Established

OSHA: Occupational Safety and Health Administration (U.S.)

PEL: Permissible Exposure Limit

PNOS: Particles (Insoluble or Poorly Soluble) Not Otherwise Specified

RQ: Reportable Quantity

RTK: Right To Know

SARA: Superfund Amendments and Reauthorization Act (U.S. EPA)

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit (15 minute Time Weighted Average)

TDG: Canadian Transportation of Dangerous Goods Act and Regulations

TLV Threshold Limit Value

C: Ceiling Limit

S: Skin notation refers to the potential significant contribution to the overall exposure by the cutaneous route including

mucous membranes and the eyes and by direct skin contact with the substance

UN: United Nations

WHMIS: Canadian Workplace Hazardous Materials Information System

## **Section 16: Other Information**

Disclaimer

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Do not use the ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis.

All information appearing herein is based upon the data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Soapgoods makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Soapgoods control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

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