



Safety Data Sheet

Potassium Benzoate

Version: 2

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier: Potassium Benzoate

Product code: 30153

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Preservative in food, feed, pharmaceutical and industrial applications.

Restriction on use: For industrial use

1.3 Details of the supplier of the safety data sheet

Company: Macco Organiques Inc.
100 Rue McArthur suite 112
Salaberry-de-Valleyfield, Québec
Canada, J6S 4M5
450 371-1066

1.4 Emergency telephone number: 450 371-1066

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation - Category 2. Serious eye irritation - Category 2A.

See toxicological information, section 11

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word: WARNING

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

Prevention

P264 Wash hands thoroughly after handling and any other part of the body that may have been exposed to the product.

P280 Wear protective gloves, protective clothing, eye and face protection.



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Response

P337+P313 If eye irritation persists: Get medical advice.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Storage

Not applicable

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards:

No	CAS No :	Common name and synonyms	%	Toxicity	Persistence and degradability	Bioaccumulative potential
1	582-25-2	Potassium benzoate	100	No	No	No

Endocrine disruptors

No	CAS No :	Common name and synonyms	Health effects	Environmental effects
1	582-25-2	Potassium benzoate	No	No

3. Composition/information on ingredients

3.1 Substances

Common name	% (W/W)	Information
Potassium benzoate	100	CAS No : 582-25-2 EINECS Number : 209-481-3 Index No : N/A REACH Registration Number : N/A CLP Classification : H315 Causes skin irritation. H319 Causes serious eye irritation. M Factor : 1

3.2 Mixtures

Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

The full wording of hazard (H) phrases is given in section 16 of the sheet.



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4. First aid measures

4.1 Description of first aid measures: If swallowed, irritation, any type of overexposure or symptoms of overexposure occur during use of the product or persists after use, immediately contact a POISON CENTER, an EMERGENCY ROOM or a PHYSICIAN; ensure that the product safety data sheet is available.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention as soon as possible.

Skin contact: Remove contaminated clothing immediately. Wash the skin with soap and water. Thoroughly wet contaminated clothing. If irritation persists, consult a doctor.

Inhalation: Move exposed person to fresh air. Keep this person warm and lying down. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting unless instructed by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

This product is irritating to skin, eyes, respiratory and digestive tracts. The severity of symptoms can vary depending on the exposure conditions (contact time, product concentration, etc.).

This product is a serious irritant that may cause reversible damages to the cornea. Possible erythema of the skin.

4.3 Indication of any immediate medical attention and special treatment needed: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Firefighting measures

5.1 Extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Jets of water can facilitate the spread of fire.

5.2 Special hazards arising from the substance or mixture: No specific hazard.

Hazardous combustion products: Carbon monoxide and dioxide. Potassium oxides.

5.3 Advice for firefighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel :

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

6.1.2 For emergency responders:

Equip the cleaning crew with adequate protection depending on the location of the product.

6.2 Environmental precautions:



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Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up:

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosionproof equipment. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections :

See section 1 for emergency contact information. See section 8 for information on appropriate personal protective equipment. See section 13 for more information on waste treatment.

7. Handling and storage

7.1 Precautions for safe handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing dust. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

7.2 Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Incompatibility: None known at room temperature.

7.3 Specific end use(s): Not available

8. Exposure controls/personal protection

8.1 Control parameters

1 - National occupational exposure limit values

Substance	CAS No	Workplace exposure limit				Comments
		Longterm exposure limit (8-hr TWA reference period)		Shortterm exposure limit (15-minute reference period)		
		ppm	mg/m ³	ppm	mg/m ³	
Potassium benzoate	582-25-2	N/A	N/A	N/A	N/A	The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to substances identified in IOELV Directives



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2 - Union occupational exposure limit values

EINECS Number	CAS No	Common name and synonyms	8-hour TWA		15-minute occupational exposure limit (STEL)		Notes
			ppm	mg/m ³	ppm	mg/m ³	
209-481-3	582-25-2	Potassium benzoate	N/A	N/A	N/A	N/A	N/A

3 - US occupational exposure limit values

EINECS Number	CAS No	Common name and synonyms	IDLH NIOSH	Regulatory Limits			Recommended Limits	
				OSHA PEL		California / OSHA PEL	NIOSH REL	ACGIH® 2019 TLV®
				ppm	mg/m ³	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
209-481-3	582-25-2	Potassium benzoate	N/A	N/A	N/A	N/A	N/A	N/A

IDLH: Immediately Dangerous to Life or Health Concentrations

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limits

California / OSHA: California Division of Occupational Safety and Health

REL: Recommended Exposure Limits

ACGIH®: American Conference of Governmental Industrial Hygienists

TLV®: Threshold Limit Values

8.2 Exposure controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyes: DO NOT WEAR CONTACT LENSES Wear anti-splash safety goggles.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties.

Respiratory: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Others: Wear protective clothing with long sleeves and appropriate safety shoes at all times.



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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Powder

Colour: White

Odour: Weak

Melting point/freezing point: 300 °C (572 °F)

Initial boiling point/boiling range: Not applicable

Flammability: Yes

Lower flammable/explosive limit: Not applicable

Upper flammable/explosive limit: Not applicable

Flash point: Not applicable

Auto-ignition temperature: 460 °C (860 °F)

Decomposition temperature: 450 °C (842 °F)

pH: 7,0 - 9,0 solution 5%

Kinematic viscosity: Not applicable

Solubility: 492 g/L at 20 °C

Partition coefficient n-octanol/water (Log Kow): 2.27

Vapour pressure: Not applicable

Density and/or relative density: 1.35 kg/L at 20 °C (water = 1)

Relative vapour density: Not applicable

Particle characteristics: < 100 µm: 0.1 %

9.2 Other information: Not applicable

10. Stability and reactivity

10.1 Reactivity: Stable under recommended conditions of storage and handling.

10.2 Chemical stability: This product is unstable under the following conditions: The product decomposes when exposed to heat.

10.3 Possibility of hazardous reactions: No dangerous or polymerization reactions will not occur under normal conditions of use. Risk of explosion by shock, friction, fire or other sources of ignition.

10.4 Conditions to avoid: Keep away from incompatible products (see section 7). Avoid operations producing a cloud of organic powders or dusts. In a room where the formation of powders or dust cannot be avoided, its accumulation must be prevented, all equipment must be earthed and non-sparking tools must be used.

10.5 Incompatible materials: Strong acids and strong oxidizing agents.

10.6 Hazardous decomposition products: Carbon monoxide and dioxide. Potassium oxides.



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11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

The following tables summarize the most relevant toxicological data from ECHA, SAX'S (USA), ACGIH (USA), IARC and the CNESST (Canadian) toxicological repertoire.

	Oral	Dermal	Inhalation gases	Inhalation vapours	Inhalation dusts/mists
ATE _{product}	> 5 000 mg/kg	> 5 000 mg/kg	N/A	N/A	> 5 mg/l

No	CAS No :	Common name and synonyms	LD ₅₀ oral mg/kg	LD ₅₀ skin mg/kg	LC ₅₀ inhalation ppmV 4h - gases	LC ₅₀ inhalation mg/l 4h - vapours	LC ₅₀ inhalation mg/l 4h - dusts-mist
1	582-25-2	Potassium benzoate	> 5000	> 5000	N/A	N/A	> 5.00

Information on likely routes of exposure: This product is absorbed through the respiratory tract and by the digestive tract.

Symptoms related to the physical, chemical and toxicological characteristics: This product is irritating to skin, eyes, respiratory and digestive tracts. The severity of symptoms can vary depending on the exposure conditions (contact time, product concentration, etc.).

Delayed and immediate effects as well as chronic effects from short and long-term exposure: This product is a serious irritant that may cause reversible damages to the cornea. Possible erythema of the skin.

Aspiration hazard	N/A
Skin corrosion - Skin irritation	Yes
Serious eye damage - Eye irritation - Serious eye irritation	Yes
Skin sensitization	N/A
Respiratory sensitization	N/A
Specific target organ toxicity – single exposure	N/A
Specific target organ toxicity – single exposure Category 3 Narcotic effects	N/A
Specific target organ toxicity – single exposure Category 3 Respiratory tract irritation	N/A
Specific target organ toxicity – repeated exposure	N/A

No	CAS No :	Common name and synonyms	IARC	ACGIH	Mutagenicity	Effect on reproduction
1	582-25-2	Potassium benzoate	Not listed	Not listed	No effects shown.	No effects shown.

Cancer classification under 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: not classifiable as to its carcinogenicity to humans.

Group 4: probably not carcinogenic to humans.



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Cancer classification under ACGIH (American Conference of Governmental Industrial Hygienists)

- Group A1: confirmed human carcinogen.
- Group A2: suspected human carcinogen.
- Group A3: confirmed animal carcinogen with unknown relevance to humans.
- Group A4: not classifiable as a human carcinogen.
- Group A5: not suspected as a human carcinogen.

No data available for mixture. The product has been classified on component hazards. Classes and categories not retained at the end of classification are because the components did not meet the reporting threshold or were not hazardous.

11.2 Information on other hazards

Endocrine disrupting properties

Endocrine disrupting properties: Not applicable

Other information

No other effects shown.

Endocrine disruptors

No	CAS No :	Common name and synonyms	Health effects
1	582-25-2	Potassium benzoate	No

12. Ecological information

No	CAS No :	Common name and synonyms	%	12.1 Toxicity	12.2 Persistence and degradability	12.3 Bioaccumulative potential
1	582-25-2	Potassium benzoate	100	No	No	No

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment: Not available

12.6 Endocrine disrupting properties:

No	CAS No :	Common name and synonyms	Environmental effects
1	582-25-2	Potassium benzoate	No

12.7 Other adverse effects

No	CAS No :	Common name and synonyms	%	Terrestrial Ecotoxicity	Aquatic Ecotoxicity short term	Aquatic Ecotoxicity long term
1	582-25-2	Potassium benzoate	100	No known adverse effect to the environment.	No known adverse effect to aquatic life.	No known adverse effect to aquatic life.



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13. Disposal considerations

13.1 Waste treatment methods: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14. Transport information

	TDG	DOT / TDG	IMDG	IATA
14.1 UN Number				
14.2 UN Proper shipping name	NOT REGULATED	NOT REGULATED	NOT REGULATED	NOT REGULATED
14.3 Transport hazard class(es)				
14.4 Packing group				

14.5 Environmental hazards: No

14.6 Special precautions for user: Not applicable

14.7 Maritime transport in bulk according to IMO instruments: Not applicable

(according to Annex II of the International Convention for the Prevention of Pollution From Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78), and the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code))

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 59)

This product does not contain any substances are subject to Regulations (EC) No 1005/2009, (EC) No 850/2004 and (EC) No 649/2012.

The customer is responsible for determining the PPE (personal protection equipment) code for this material.

15.2 Chemical safety assessment: Not available

16. Other information

Classification	Category	Hazard Statement	Justification
Skin irritation	Category 2	H315 - Causes skin irritation.	pH
Serious eye irritation	Category 2A	H319 - Causes serious eye irritation.	pH



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P264	Wash hands thoroughly after handling and any other part of the body that may have been exposed to the product.
P280	Wear protective gloves, protective clothing, eye and face protection.
P337+P313	If eye irritation persists: Get medical advice.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

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