

Safety data sheet

Potassium Metabisulfite food grade (E224)

Revision date : 2009/03/19
Version: 1.0

Page: 1/6
(30042359/SDS_GEN_CA/EN)

1. Substance/preparation and company identification

Company

BASF CANADA
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information

CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

Molecular formula:

K(2)S(2)O(5)

Synonyms:

POTASSIUM METABISULFITE FOOD GRADE

2. Hazardous ingredients

CAS Number

7681-57-4

16731-55-8

Content (W/W)

>= 1.0 - <= 5.0 %

>= 60.0 - <= 100.0 %

Hazardous ingredients

Sodium metabisulfite

dipotassium disulphite

3. Hazard identification

Emergency overview

IRRITANT. Irritating to eyes and respiratory system.

Potential health effects**Acute toxicity:**

Of low toxicity after single ingestion. Virtually nontoxic by inhalation.

Sensitization:

Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from products of a similar structure and composition. A sensitizing effect on particularly sensitive individuals cannot be excluded.

Repeated dose toxicity:

No known chronic effects.

Potential environmental effects**Aquatic toxicity:**

Acutely harmful for aquatic organisms.

The product may hydrolyse. The test result maybe partially due to degradation products.

Safety data sheet

Potassium Metabisulfite food grade (E224)

Revision date : 2009/03/19
Version: 1.0

Page: 2/6
(30042359/SDS_GEN_CA/EN)

4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention. After inhalation of decomposition products: Immediately inhale corticosteroid dose aerosol.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth and then drink plenty of water.

Note to physician

Hazards: Risk of sulfur dioxide formation by reaction with gastric acid after swallowing.

5. Fire-fighting measures

Suitable extinguishing media:

foam

Hazards during fire-fighting:

Sulphur dioxide,
The substances/groups of substances mentioned can be released if the product is involved in a fire.

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations. In case of fire and/or explosion do not breathe fumes.

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Ensure adequate ventilation. Avoid dust formation. Avoid contact with eyes.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Cleanup:

Sweep/shovel up. Correctly dispose of recovered product immediately.

Safety data sheet

Potassium Metabisulfite food grade (E224)

Revision date : 2009/03/19
Version: 1.0

Page: 3/6
(30042359/SDS_GEN_CA/EN)

7. Handling and storage

Handling

General advice:

Use only in well-ventilated areas. Avoid dust formation.

Protection against fire and explosion:

The substance/product is non-combustible. No special precautions necessary.

Storage

General advice:

Keep in a cool place. Keep container dry. Keep container in a well-ventilated place.

Storage incompatibility:

General: Segregate from acids and acid forming substances. Segregate from oxidants.
Specific: sodium nitrate, sodium nitrite, sodium sulfide,

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) particulate respirator.

Hand protection:

Chemical resistant protective gloves, Suitable materials

Eye protection:

Tightly fitting safety goggles (chemical goggles).

General safety and hygiene measures:

Avoid inhalation of dust. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and chemical properties

Form:	powder	
Odour:	faint odour, of sulfur dioxide	
Odour threshold:	No data available.	
Colour:	white	
pH value:	3.8 - 4.6	(5 %(m))
decomposition point:	150 °C	
Density:	2.34 g/cm ³	
Relative density:	2.3	(other)
Bulk density:	1,100 - 1,300 kg/m ³	
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:		not applicable
Particle size:	65 µm	(measured)
Solubility in water:	approx. 450 g/l	(20 °C) hydrolyzes

10. Stability and reactivity

Substances to avoid:

acids, oxidizing agents, nitrites, nitrates, sulfides

Safety data sheet

Potassium Metabisulfite food grade (E224)

Revision date : 2009/03/19
Version: 1.0

Page: 4/6
(30042359/SDS_GEN_CA/EN)

Hazardous reactions:

Reacts with nitrites. Reacts with nitrates. Reacts with oxidizing agents.

Decomposition products:

Hazardous decomposition products: Sulphur dioxide

Thermal decomposition:

> 150 °C

To avoid thermal decomposition, do not overheat.

11. Toxicological information

Acute toxicity

Oral:

LD50/rat: approx. 2,300 mg/kg (BASF-Test)

Inhalation:

LC50/rat: > 5.5 mg/l / 4 h

Tested as dust aerosol.

Skin irritation:

rabbit: non-irritant (BASF-Test)

Eye irritation :

rabbit: Risk of serious damage to eyes. (OECD Guideline 405)

Sensitization:

guinea pig: Non-sensitizing.

Chronic toxicity

Genetic toxicity:

No mutagenic effect was found in various tests with bacteria and mammalian cell culture.

The substance was not mutagenic in a test with mammals.

The product has not been tested. The statement has been derived from products of a similar structure and composition.

Carcinogenicity:

In long-term studies in rats and mice in which the substance was given by drinking-water, a carcinogenic effect was not observed.

Reproductive toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

The product has not been tested. The statement has been derived from products of a similar structure and composition.

Developmental toxicity/teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

12. Ecological information

Environmental fate and transport

Safety data sheet

Potassium Metabisulfite food grade (E224)

Revision date : 2009/03/19
Version: 1.0

Page: 5/6
(30042359/SDS_GEN_CA/EN)

Biodegradation:

Evaluation: Inorganic product which cannot be eliminated from water by biological purification processes.

Bioaccumulation:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Chemical oxygen demand (COD):

(calculated) approx. 140 mg/g

Environmental toxicity

Acute and prolonged toxicity to fish:

OECD 203; ISO 7346; 84/449/EEC, C.1 static
zebra fish/LC50 (96 h): = 460 - 1000 mg/l
Nominal concentration.

Acute toxicity to aquatic invertebrates:

Directive 79/831/EEC static
Daphnia magna/EC50 (48 h): 104 mg/l
Nominal concentration. The product has not been tested. The statement has been derived from products of a similar structure and composition.

Toxicity to aquatic plants:

other static
green algae/EC50 (72 h): 56 mg/l
Nominal concentration. The product has not been tested. The statement has been derived from products of a similar structure and composition.

Toxicity to microorganisms:

DIN 38412 Part 8 aquatic
Bacteria/EC10 (17 h): 32 mg/l
Nominal concentration.

Other ecotoxicological advice:

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

Waste disposal of substance:

Contact manufacturer regarding recycling.
Contact waste centre regarding recycling.
Must be dumped or incinerated in accordance with local regulations.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport information

Land transport

TDG

Safety data sheet

Potassium Metabisulfite food grade (E224)

Revision date : 2009/03/19
Version: 1.0

Page: 6/6
(30042359/SDS_GEN_CA/EN)

Not classified as a dangerous good under transport regulations

Sea transport IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory information

Federal Regulations

Registration status:
DSL, CA released / listed

WHMIS classification: D2B: Materials Causing Other Toxic Effects - Toxic material



THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other information

Local contact information
BASF Canada Product Safety
prod_reg@basf.com

END OF DATA SHEET