

# Safety Data Sheet

## Potassium Sulfite Solution 45%

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Version: 2.0

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(30042357/SDS\_GEN\_MX/EN)

### 1. Identification

**Product identifier used on the label**

**Potassium Sulfite Solution 45%**

**Recommended use of the chemical and restriction on use**

Recommended use\*: Chemical

Recommended use\*: inorganic reducing agents; initial product for chemical syntheses; process chemical

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

BASF Mexicana S.A. de C.V.  
Av. Insurgentes Sur 975  
Col. CD. De Los Deportes,  
C.P. 03710 Ciudad de México  
MÉXICO

Telephone: +52 55 5325 2600

**Emergency telephone number**

24 Hour Emergency Response Information

SETIQ: 1800-00-214-(Rep. Mexicana) or 55-59-15-88 (CDMX)

Telephone: +1-800-849-5204 or +1-833-229-1000

**Other means of identification**

Chemical family: inorganic reducing agents

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### 2. Hazards Identification

According to Regulation NOM-018-STPS-2015

**Classification of the product**

Aquatic Acute

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Hazardous to the aquatic environment - acute

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### Label elements

Hazard Statement:  
H402 Harmful to aquatic life.

Precautionary Statements (Prevention):  
P273 Avoid release to the environment.

Precautionary Statements (Disposal):  
P501 Dispose of contents/container in accordance with local regulations.

### Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered. If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Labeling of special preparations (GHS):  
Contact with acids liberates toxic gas.

## 3. Composition / Information on Ingredients

### According to Regulation NOM-018-STPS-2015

Sulfurous acid, dipotassium salt  
CAS Number: 10117-38-1  
Content (W/W):  $\geq 25.0$  -  $< 50.0\%$   
Synonym: Potassium sulfite

## 4. First-Aid Measures

### Description of first aid measures

**General advice:**  
Immediately remove contaminated clothing.

**If inhaled:**  
Keep patient calm, remove to fresh air, seek medical attention. After inhalation of decomposition products: Immediately administer a corticosteroid from a controlled/metered dose inhaler. Seek medical attention.

**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:**  
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

### Most important symptoms and effects, both acute and delayed

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Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., Many individuals are sensitive to sulphite additives and may experience a range of symptoms, including dermatitis, urticaria, angio-oedema, abdominal pain, diarrhoea, bronchoconstriction and anaphylaxis.

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

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
water spray, carbon dioxide, foam, dry powder

water spray

Unsuitable extinguishing media for safety reasons:  
water jet

Additional information:  
Product will not burn.

Use extinguishing measures to suit surroundings.

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Sulphur dioxide,

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

### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

### Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Contaminated extinguishing water must be disposed of in accordance with official regulations. In case of fire and/or explosion do not breathe fumes.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Ensure adequate ventilation.

### Environmental precautions

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Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water.

### Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material.

For large amounts: Pump off product.

Dispose of absorbed material in accordance with regulations.

## 7. Handling and Storage

### Precautions for safe handling

Use only in well-ventilated areas. Do not inhale vapours / aerosols. Avoid contact with skin and eyes.

Protection against fire and explosion:

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

### Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances. Segregate from oxidants.

Suitable materials for containers: Stainless steel 1.4401, Stainless steel 1.4404, Stainless steel 1.4301 (V2), Stainless steel 1.4541, Stainless steel 1.4571, High density polyethylene (HDPE), rubberized

Further information on storage conditions: Keep away from heat. Keep container tightly closed in a cool, well-ventilated place. Keep container dry. The product consumes oxygen. Danger of lack of oxygen in containers and tanks.

## 8. Exposure Controls/Personal Protection

No occupational exposure limits known.

The substance mentioned develops if the regulation/notes for storage and handling are not observed.

Sulphur dioxide                      OEL, MX:              STEL value 0.25 ppm ;

### Personal protective equipment

#### Respiratory protection:

Respiratory protection in case of release of decomposition products. Suitable respiratory protection for lower concentrations or short-term effect: Wear a NIOSH-certified (or equivalent) respirator as necessary. Suitable respiratory protection for higher concentrations or long-term effect: Self-contained breathing apparatus.

#### Hand protection:

Chemical resistant protective gloves should be worn to prevent all skin contact., Suitable materials may include, nitrile rubber (Buna N), chloroprene rubber (Neoprene), polyvinylchloride (Pylox), Consult with glove manufacturer for testing data., Protective glove selection must be based on the user's assessment of the workplace hazards.

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### Eye protection:

Tightly fitting safety goggles (chemical goggles).

### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapour/spray. Hands and/or face should be washed before breaks and at the end of the shift.

## 9. Physical and Chemical Properties

|   |  |                   |
|---|--|-------------------|
| Form:   | aqueous solution   |                   |
| Odour:  | odourless  |                   |
| Odour threshold:  | not applicable, odour not perceivable  |                   |
| Colour:   | colourless   |                   |
| pH value:   | 9 - 10.5   | (other)           |
| crystallization temperature:                            | approx. -30 °C   |                   |
| Freezing point:   | No data available.   |                   |
| Melting point:  | No data available.   |                   |
| Boiling point:  | 135 °C<br>( 1,013 hPa)   |                   |
| Flash point:  | not applicable   |                   |
| Lower explosion limit:                                  | For liquids not relevant for classification and labelling.                   |                   |
| Upper explosion limit:                                  | For liquids not relevant for classification and labelling.                   |                   |
| Autoignition:   | No data available.   |                   |
| Vapour pressure:  | approx. 14 mbar<br>( 20 °C)  | (measured)        |
|   | approx. 81 mbar<br>( 50 °C)  | (measured)        |
|   | approx. 100 mbar<br>( 55 °C)   | (measured)        |
| Density:  | 1.445 - 1.460 g/cm3<br>( 20 °C)  | (DIN 51757)       |
| Relative density:                                       | No data available.   |                   |
| <i>Information on: Sulfurous acid, dipotassium salt</i> |  |                   |
| Partitioning coefficient n-octanol/water (log Pow):     | Study scientifically not justified.  |                   |
| -----   |  |                   |
| Self-ignition temperature:                              | not self-igniting  |                   |
| Thermal decomposition:                                  | It is not a self-decompositionable substance.                                |                   |
| Viscosity, dynamic:                                     | 4.15 mPa.s<br>( 20 °C)   | (internal method) |
| Viscosity, kinematic:                                   | not determined   |                   |
| Particle size:  | The substance / product is marketed or used in a non solid or granular form. |                   |
| Solubility in water:                                    | 505 g/l<br>( 20 °C)  |                   |
| Miscibility with water:                                 | completely (e.g. >=90%)  |                   |

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Evaporation rate: Value can be approximated from Henry's Law Constant or vapor pressure.

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## 10. Stability and Reactivity

### Reactivity

Oxidizing properties:  
not fire-propagating

### Chemical stability

#### Possibility of hazardous reactions

Reacts with nitrites. Reacts with nitrates. Reacts with oxidizing agents. Generation of sulphur dioxide upon exposure to acids. (or conditions.) The product consumes oxygen.

#### Conditions to avoid

avoid atmospheric oxygen

#### Incompatible materials

nitrites, nitrates, oxidizing agents, acids

#### Hazardous decomposition products

Decomposition products:  
Hazardous decomposition products: Sulphur dioxide

Thermal decomposition:  
It is not a self-decompositionable substance.

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion.

*Information on: Sulfurous acid, dipotassium salt*

*Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

#### Oral

Type of value: LD50  
Species: rat

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Value: > 2,000 mg/kg

The data on toxicology refer to the active ingredient.

*Information on: Sulfurous acid, dipotassium salt*

*Type of value: LD50*

*Species: rat (male/female)*

*Value: approx. 2,610 mg/kg (BASF-Test)*

*The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

### Inhalation

*Information on: Sulfurous acid, dipotassium salt*

*Type of value: LC50*

*Species: rat (male/female)*

*Value: > 5.5 mg/l (similar to OECD guideline 403)*

*Exposure time: 4 h*

*Tested as dust aerosol.*

*The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

### Dermal

*Information on: Sulfurous acid, dipotassium salt*

*Type of value: LD50*

*Species: rat (male/female)*

*Value: > 2,000 mg/kg (OECD Guideline 402)*

*The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

### Irritation / corrosion

Assessment of irritating effects: Based on available data, the classification criteria are not met.

### Skin

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

The product has not been tested. The statement has been derived from the properties of the individual components.

### Eye

Species: rabbit

Result: non-irritant

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

### Sensitization

Assessment of sensitization: Based on available data, the classification criteria are not met.

*Information on: Sulfurous acid, dipotassium salt*

*Assessment of sensitization:*

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

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### Mouse Local Lymph Node Assay (LLNA)

Species: mouse

Result: Non-sensitizing.

Method: OECD Guideline 429

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

### Aspiration Hazard

not applicable

## Chronic Toxicity/Effects

### Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria.

### Carcinogenicity

Assessment of carcinogenicity: Based on available data, the classification criteria are not met.

*Information on: Sulfurous acid, dipotassium salt*

*Assessment of carcinogenicity: In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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### Reproductive toxicity

Assessment of reproduction toxicity: Based on available data, the classification criteria are not met.

*Information on: Sulfurous acid, dipotassium salt*

*Assessment of reproduction 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 substances/products of a similar structure or composition.*

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### Teratogenicity

Assessment of teratogenicity: Based on available data, the classification criteria are not met.

*Information on: Sulfurous acid, dipotassium salt*

*Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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### Experiences in humans

With sensitive persons it can lead to an over sensitive reaction.

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## 12. Ecological Information

### Toxicity



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### Aquatic toxicity

#### Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

### Aquatic toxicity

*Information on: Sulfurous acid, dipotassium salt*

#### *Assessment of aquatic toxicity:*

*There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.*

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### Toxicity to fish

*Information on: Sulfurous acid, dipotassium salt*

*LC50 (96 h) 316 mg/l, Leuciscus idus (DIN 38412 Part 15, static)*

*The details of the toxic effect relate to the nominal concentration.*

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### Aquatic invertebrates

*Information on: Sulfurous acid, dipotassium salt*

*EC50 (48 h) 74 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)*

*The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

*EC50 (48 h) 230 mg/l, Daphnia magna (other, static)*

*The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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### Aquatic plants

*Information on: Sulfurous acid, dipotassium salt*

*EC50 (72 h) 40 mg/l (growth rate), Scenedesmus subspicatus (ISO 8692, static)*

*Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

*EC50 (72 h) > 100 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)*

*Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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## Microorganisms/Effect on activated sludge

### Toxicity to microorganisms

*Information on: Sulfurous acid, dipotassium salt*

*OECD Guideline 209 static*

*activated sludge of a predominantly domestic sewage/EC50 (3 h): > 1,000 mg/l*

*The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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## Persistence and degradability

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### Assessment biodegradation and elimination (H<sub>2</sub>O)

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

### **Bioaccumulative potential**

#### Bioaccumulation potential

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

### **Mobility in soil**

#### Assessment transport between environmental compartments

Adsorption to solid soil phase is not expected.

### **Additional information**

Other ecotoxicological advice:  
Do not release untreated into natural waters.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Must be disposed of or incinerated in accordance with local regulations. Observe national and local legal requirements.

### **Container disposal:**

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

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## 14. Transport Information

### **Land transport**

TDG

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

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## 15. Regulatory Information

### Federal Regulations

Not applicable

### **NFPA Hazard codes:**

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Health: 0

Fire: 1

Reactivity: 0

Special:

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2024/10/23

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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This information is considered accurate but is not exhaustive and shall only be used as a guideline based on current knowledge of the chemical substance or mixture. Safety precautions suitable for the product must be applied.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

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