

SECTION 1: Identification of the substance/ company

Product identifier

Trade name: KIF GRAPE PAD, Protection pads

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

KEEP-IT-FRESH

UNIT1: Plot no. 18 Sector 06, IMT Manesar, Haryana

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SECTION 2: Hazards identification

Markings on label:	Not applicable
Chemical product hazards identification:	Product presents hazards due to the exposure to active ingredient
Hazards to humanhealth	
Effects of acute over-exposure (one time only):	Skin irritation, dermatitis.
Inhalation:	Lengthy exposure may irritate respiratory tract.
Skin contact:	Frequent and lengthy contact may cause skin irritation.
Eye contact:	Contact with active ingredient or product activation may cause eye irritation.
Ingestion:	The irritant effect of the product can cause nausea and vomiting. In large doses, product may cause stomach cramps, diarrhea.
Effects of chronic over-exposure (long term) :	There is no evidence of carcinogenic, mutagenic or teratogenic effects.
Medical conditions aggravated due to exposure to product:	Respiratory problems and sensitive skin.
Hazards to the environment:	Not applicable as final product.
Special product hazards:	Product releases SO ₂ when in contact with moisture

SECTION 3: Composition/information on ingredients

Chemical name	: Sodium meta-bi-sulfite (Active Ingredient) Chemical formula
	: Na ₂ S ₂ O ₅ (Active Ingredient)
Atomic weight	: 190.105 (Active Ingredient)
Synonyms	: Sodium pyro-sulfite, Sodium bi-sulfite (Active Ingredient) CAS No : 7681-57-4 (for Active Ingredient)
UN No	3077

SECTION 4: First aid measures

If accidental contact with product occurs, proceed as follows:

Inhalation: Remove victim from exposure sources, take to open air and seek medical assistance. If breathing is irregular, administer artificial respiration. If respiratory arrest occurs, apply cardio-pulmonary resuscitation (CPR). Seek medical assistance.

Skin contact: If contact with active ingredient occurs, remove contaminated clothes and wash contaminated skin with

abundant water for at least 20 minutes. If irritation persists, seek medical assistance.

Eye contact: If contact with active ingredient occurs, flush eyes with abundant water for at least 20 minutes, trying to remove substance from eyes. Do not manipulate, do not open product. Seek medical assistance if irritation persists.

Ingestion: DO NOT manipulate generators, do not open, DO NOT feed anything by mouth to an unconscious person. DO NOT induce vomiting. Flush mouth with abundant water. Seek medical assistance.

Advice to treating physician: If breathing becomes difficult, administered oxygen.

SECTION 5: Firefighting measures

Extinguishing media: All extinguishing media are appropriate. Carbon anhydride (CO₂) is recommended; dry chemical product; pressurized water.

Special fire-fighting procedures: Active ingredient is not flammable. Final product may become Flammable in the presence of fire. Packaging is combustible. Does not ignite by itself, but can decompose in the presence of heat, releasing SO₂. In case of fire, avoid spreading powder material. Control runoff if water is used; build dam to contain water contaminated with product.

Personal protection equipment for fire fighting: Use adequate protective clothing and self-contained breathing equipment.

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SECTION 6: Accidental release measures

Emergency measures if material is spilled: Avoid breaking generators. To reduce product spill, isolate the area, prevent product from disseminating; to neutralize, use Sodium carbonate (soda ash).

Emergency personal protection equipment: Use appropriate clothing, safety goggles and full-face respiratory protection.

SECTION 7: Handling and Storage

Technical recommendations: The generator is a preventive action Sulfurous anhydride generator to control Botrytis. Prior to using the product, read carefully all instructions printed on the generator.

Precautions: DO NOT eat or drink while manipulating the product; change clothes at the end of the work day; keep area tidy and clear; DO NOT open generator; keep generator in well ventilated areas.

Specific recommendations for safe handling of product: Information not available.

Storage conditions: Store in a safe, cool and dry place with good ventilation at all times. Avoid moisture. Assess fuel charge in the case of packaged material.

Recommended and inappropriate packaging: Packaging recommended should be able to maintain product isolated from moisture.

SECTION 8: Exposure controls/personal protection

Measures to reduce exposure possibilities : Avoid exposure to moisture.

Weighted permissible limits (WPL) : 4 mg/m³ (for active ingredient)

Breathing protection	: If acid or toxic gases are released, use NIOSH- approved breathing equipment.
Protection gloves	: Use nitrile or PVC gloves.
Eye protection	: Use protection goggles, safety eye-glasses, with full face protection.
Other protection equipment	: Use adequate clothing as per the emergency.
Ventilation	: Ventilation should be available at all times.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	: Crystalline solid (active ingredient) Appearance, white powder and light sulfur dioxide smell
Physical form	: white sodium salt
color	: White
Concentration	: 97% minimum (active ingredient)
pH	: Not applicable
Melting point	: Not applicable
Decomposition temperature	: Stable at normal temperatures (at 150° C, SO ₂ is released – active ingredient)
Flash point	: Not applicable
Self-ignition temperature	: Not applicable
Explosive properties	: Product is non-explosive
Fire or explosion hazards	: Not applicable
Flame propagation speed	: Not determined
Density at 20°C	: Not applicable

9.2. Other information

No information.

SECTION 10: Stability and reactivity

- 10.1.** Stability : Stable as final product and active ingredient.
- 10.2.** Conditions to be avoided : Avoid moisture and high temperature conditions while stored.
- 10.3.** Incompatibilities (materials to be avoided) : Contact with acids and oxidizing agents.
- 10.4.** Hazardous decomposition products: SO₂, SO₃ and Na₂O
- 10.5.** Hazardous combustion products : Information not available
- 10.6.** Hazardous polymerization : Not applicable

SECTION 11: Toxicological Information

Acute toxicity	: Non-toxic product; LC50 inhalation rats: 0.53mg/ L; LD50 dermal rats :>2000mg/ kg; LD50 oral rats: 3.200 mg/kg (active ingredient)
Chronic or long-term toxicity	: Information not available
Local effects	: Irritation
Allergic sensitization	: Product does not result in sensitization; reaction in allergic and asthmatic individuals only.

SECTION 12: Ecological Information

Instability	: Unstable as active ingredient in the presence of high moisture and high temperature levels.
Packaging residues	: Dispose of as household residues.
Persistence/degradability	: Degradable.
Bio-accumulation	: Information not available Effects on the
environment	: Information not available.

SECTION 13: Disposal Considerations

Product residue disposal method	: Collect pads inside polyethylene garbage bag, seal and dispose of in authorized sanitary landfills.
Disposal of contaminated containers/packaging:	Dispose of containers as per local legislation applicable
Packaging that may not be cleansed must be disposed of in the same manner as the product.	

SECTION 14: Transport Information

- 14.1 UN Number ADR, ADN, IMDG, IATA** Not applicable (As final product).
- 14.2 UN proper shipping name ADR, ADN, IMDG, IATA** Not applicable (As final product).
- 14.3 Transport hazard class(es)**
ADR, ADN, IMDG, IATA Class Not applicable (As final product).
- 14.4 Packing group ADR, IMDG, IATA** Not applicable (As final product).
- 14.5 Environmental hazards Marine pollutant:** Not applicable (As final product).
- 14.6 Special precautions for user** Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

SECTION 15: Standards in Force

International standards applicable	: Food and Agricultural Organization Regulations Hazard indications : Xn (active ingredient)
Specific hazards	: R22 – R31 – R41 (active ingredient)
Precaution recommendations	: S26 – S39 – S46 (active ingredient)
Domestic standards applicable 594 (2001), NCh 2245 of 2003.	: NCh 382 of 98, NCh 2190 of 93, NCh 2120/8 of 98, DS No
Markings on label	: Precaution.

SECTION 16: Other Information

All information, recommendations and suggestions herein in relation to our product are based on reliable testing and data; however, it is the responsibility of the user to determine that the product described herein is compatible with his/her needs from the point of view of toxicity and safety. Given the fact that the effective use of the product on the part of third parties is out of our control, we do not provide any explicit or implicit guarantee regarding the effects of said use; neither do we assume any responsibility regarding the use that third parties make of the product herein.

[Disclaimer]

This MSDS has been prepared in accordance with REGULATION (EC) No 1907/2006, DIRECTIVE 67/548/EEC, DIRECTIVE 1999/45/EC, REGULATION (EC) No 1272/2008.

This MSDS has been prepared based on our best knowledge regarding the product and safety/hazard information which can be obtained at the time of the preparation, however, care should be made because contents may not be sufficient. In case new findings become available, descriptions in this MSDS can be updated as appropriate without prior notice. Please consider that precautions in this MSDS only cover normal handling conditions and additional safety measures should be taken for special situations which are suitable for your own usage or purposes.