



Material Safety Data Sheet

Servafresh

Conforms to 91/155/EEC, ISO 11014-1 and the Occupational Health and Safety Act (Act 85 of 1993)
This MSDS complies with ISO 11014-1.

1 Identification of the substance / preparation and of the company / undertaking

Product name	Servafresh	Manufactured/supplied by
Chemical product name	Sulphur Dioxide Gas Generating Sheet	Servatec Pty Ltd
Synonyms	Sulphur Dioxide Gas Generating Sheet	Unit A2, Hi Park
Material uses	Prevent Botrytis Cinerea decay on table grapes	Blackheath, Cape Town.
Emergency telephone number	0878080140	SOUTH AFRICA
		www.servatec.co.za

2 Composition / information on ingredients

Substance/preparation	CAS Number
Chemical name*	25038-59-9
Polyethylene terephthalate film	9003-07-0
Polypropylene non-woven	Proprietary
Isocyanate prepolymer	101-68-8
Methylene bisphenyl diisocyanate	8001-79-4
Castor oil	7681-57-4
Sodium metabisulphite (E223)	

3 Hazards identification

Classification	2007/43/EC
Additional hazards	Contact with water liberates sulphur dioxide gas.
Effects and symptoms	Slight irritant to skin (irritant). Irritant to eye if contacted, inhalation irritant.
Aggravating conditions	Asthma sufferers will be more prone to symptoms. Working with this product in enclosed areas, perspiration.

4 First-aid measures

Inhalation	If inhaled, move to fresh air. If breathing is difficult, get medical attention, provide oxygen to assist.
Ingestion	Not possible to swallow hazardous quantities of product.
Skin contact	Slight irritant. Wash with running water. Get medical attention if irritation persists.
Eye contact	In case of eye contact. Immediately flush eyes with plenty of water. Get medical attention if irritation persists.
Notes to physician	No additional remarks.
Protection of first aiders	No additional remarks.



5 Fire-fighting measures

Extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Foam Large quantities of water, water spray.
Suitable	Water, Foam, Carbon Dioxide, Dry Powder.
Not suitable	Not available.
Unusual fire/explosion hazards	Non combustible, hazardous vapours may form.
Hazardous thermal (de) composition products	No applicable
Special fire-fighting procedures	Not identified
Protection of fire-fighters	Fire fighters should wear applicable personal protective equipment.

6 Accidental release measures

Personal precautions	None.
Environmental precautions and clean-up methods	Collect as for normal waste removal.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

7 Handling and storage

Handling	Do not breathe gas. Avoid prolonged contact with skin and any contact with eyes. Keep away from incompatibles such as reducing agents.
Storage	Keep closed when not in use. Avoid high humidity or direct contact with water. Shelf life of at least 18 months in original packaging. Temporary storage when removed from grape packaging for disposal – collect in normal refuse bags or other suitable container.
Packaging	Can be packed in paper cartons or plastic containers.

8 Exposure controls/personal protection

Engineering measures	None
Hygiene measures	Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.
Occupational exposure limits	No specific data
Respiratory system	A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator when ventilation is inadequate.
Skin and body	None specific
Eyes	Not required

9 Physical and chemical properties

Physical state –	Laminated, plastic sheet.
Colour –	Printed colours: Purple, Green and White.
Odour –	Not available
Odour threshold –	Not available
Boiling point –	Not available
Melting point –	> 200°C
Density –	Not available
Vapour density –	Not available
Solubility -	Not available
Octanol/water partition coefficient	Not available
pH	Neutral
Flash point	Not applicable



Fire Hazards in Presence of Various Not applicable

Substances
 Autoignition temperature Not applicable
 Explosive properties Not applicable
 Lower explosion limit Not applicable
 Viscosity Not applicable

10 Stability and reactivity

Under low humidity conditions – non reactive. At ideal functional conditions at over 95% humidity – within prescribed tolerance levels. Inhalation reference exposure level = 660mg/m³.

Stability The product is stable.
 Conditions to avoid High humidity or wet conditions when removed from packaging.
 Materials to avoid Water, reducing agents such as ammonia, degreasing agents.
 Hazardous Decomposition Products Ammonia, degreasing agents.
 Hazardous Polymerization Will not occur.

11 Toxicological information

Potential Acute Health Effects
 Eyes Mildly irritating to the eyes.
 Skin Mildly irritating to the skin.
 Inhalation Sulphur Dioxide is a known allergen. Asthma sufferers should be made aware of low sulphur dioxide content and impairment of airway functions. Over-exposure by inhalation may cause respiratory irritation.
 Ingestion Not possible to swallow hazardous quantities of product.
 Routes of Entry Inhalation and through skin.
 Target Organs Respiratory.
 Reproductive None known.
 Mutagenesis None known.
 Carcinogenetic None known.
 Occupational Exposure Limit (OEL) Not yet known. Levels and concentration in a single sheet is not representative of a hazardous substance.
 Sodium Meta bisulphite is listed as GRAS (Generally Regarded as Safe)

12 Ecological information

Ecotoxicity Data
 Ingredient Name
 Sulphur dioxide exposure level when product is functional Max exposure of contact surface to a single sheet – 10ppm.
 Mobility Not available.
 Soil/Water Partition Coefficient (KOC) Not available.
 Persistence/degradability Inherently biodegradable.
 Bioaccumulative potential Not expected to bioaccumulate.

13 Disposal considerations

Methods of disposal Waste must be collected and disposed off according to local recycling protocols.
 Minimum requirements for recycling and or Waste Disposal to Landfill, and the Minimum Requirements for the Handling, Classification and Disposal of non-Hazardous Waste.
 Waste classification Non-hazardous waste. Mixed recyclable resin type 7.
 European Waste Catalogue (EWC) 15 01 02



14 Transport information

Goods can be transported as normal freight. Care should however, be taken that product is kept dry at all times.

15 Regulatory information

Product use	Packaging is clearly marked with a warning "Contains Sodium Meta bisulphite"
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16 Other information

Harmful by inhalation	R20 – Only when in contact with water and only to some sensitive users – asthma sufferers.
Harmful if in contact with skin	R21
Harmful if swallowed	R22
Contact with water liberates toxic gas	R29
Other special considerations	None identified

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