

Section 1 - Identification of The Material and Supplier

Ensystem South Africa (Pty) Ltd
Building 3, The Burns Business Park
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Boksburg GAUTENG
Tel: 080 367 9783

Chemical nature: Disinfectant smoke generator
Trade Name: **FUMITHOR™ HYGIENE Smoke Generator**
Product Use: Disinfectant for use as described on the product label.
Creation Date: **June, 2014**
This version issued: **March, 2022** and is valid for 5 years from this date.

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Acute toxicity (oral) – category 5, Acute toxicity (inhalation) – category 4, Skin irritation – category 2, Skin sensitisation – category 1, Eye irritation – category 2, Respiratory sensitisation – category 1, Hazardous to the aquatic environment (acute) – category 2, Hazardous to the aquatic environment (chronic) – category 3

Not a Dangerous Good according to IATA or IMDG/IMSBC criteria.

UN Number: None allocated.



GHS Signal word: **DANGER**

HAZARD STATEMENT:

- H303: Maybe harmful if swallowed.
- H315: Cause skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H401: Toxic to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

PREVENTION

- P102: Keep out of reach of children.
- P261: Avoid breathing dusts or smoke.
- P262: Do not get in eyes, on skin, or on clothing.
- P264: Wash contacted areas thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P281: Use personal protective equipment as required.
- P284: [In case of inadequate ventilation] wear respiratory protection.

RESPONSE

- P312: Call a POISON CENTRE or doctor if you feel unwell.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

SAFETY DATA SHEET

STORAGE

P402: Store in a dry place.

P410: Protect from sunlight.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Emergency Overview

Physical Description & colour: Light grey powder

Odour: Characteristic odour

Major Health Hazards: Harmful by inhalation, maybe harmful if swallowed, repeated exposure may cause skin dryness or cracking. Causes serious eye irritation.

Potential Health Effects

Inhalation:

Short term exposure: High vapour pressures may cause drowsiness and dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Long Term exposure: Vapours may cause drowsiness and dizziness.

Skin Contact:

Short term exposure: Causes skin irritation. May cause an allergic skin reaction.

Long Term exposure: Repeated exposure may cause skin dryness or cracking.

Eye Contact:

Short term exposure: This product causes serious eye irritation.

Long Term exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short term exposure: Significant oral exposure is considered to be unlikely. Available data shows that this product maybe harmful. This product may be irritating to mucous membranes.

Long Term exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc,%	TWA (mg/m ³)	STEL (mg/m ³)
2-phenylphenol	90-43-7	7	not set	not set
glutaraldehyde	111-30-8	3.5	0.41 Peak limitation	not set
potassium chlorate	3811-04-9	19	not set	not set
Other non hazardous ingredients		to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

Section 4 - First Aid Measures

General Information:

In case of human or animal poisoning, call the Griffon Poison Centre 082-446-8946 (24 hr service). Have this SDS with you when you call.

Inhalation: If symptoms of poisoning become evident, contact a Poisons Centre, or call a doctor at once. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.

SAFETY DATA SHEET

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In case of human or animal poisoning, call the Griffon Poison Centre 082-446-8946 (24 hr service).

Skin Contact: Wash skin vigorously and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until product is removed. Do not use solvents or oils.

Eye Contact: Quickly and gently brush particles from eyes. Flush contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the product is removed, while holding eyelids open. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Centre, or call a doctor immediately. Keep calm.

Section 5 - Fire Fighting Measures

The product is NOT classified as flammable,

Fire and Explosion Hazards: There is a moderate risk of an explosion from this product if commercial quantities are involved in a fire. Fire-fighters should take care and appropriate precautions. Fire decomposition products from this product are likely to be toxic if inhaled. This product is a smoke generation device and when ignited will give off smoke. Take appropriate protective measures.

Extinguishing Media: In case of fire, use carbon dioxide, dry chemical, foam.

Fire Fighting: When fighting fires involving significant quantities of this product, wear a fully encapsulated splash suit complete with self contained breathing apparatus. Cool undamaged containers exposed to fire with water spray.

Flash point: 87°C

Upper Flammability Limit: No data.

Autoignition temperature: No data.

Lower Flammability Limit: No data.

Flammability Class: No data.

Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that dusts are likely to build up in clean-up area, we recommend that you use a suitable Dust Mask. Otherwise, not normally necessary.

Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Consider vacuuming if appropriate. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Keep containers dry and away from water. Keep containers of this product in a well ventilated area. Keep away from heat and flame. Keep away from sources of ignition such as sparks and open flames. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

SAFETY DATA SHEET

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)
Glutaraldehyde	0.41 peak limitation	-

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: This product should only be used where there is ventilation that is adequate to keep exposure below the TWA levels. If necessary, use a fan.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when product is being used.

Skin Protection: You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling product. See below for suitable material types.

Protective Material Types: There is no specific recommendation for any particular protective material type.

Respirator: The use of a half-face piece respirator is recommended during and after application of the product, including during early re-entry into the treated area.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Light grey powder in metal can
Odour:	Characteristic odour
Boiling Point:	Not available
Freezing/Melting Point:	No specific data. Solid at normal temperatures
Volatiles:	No data
Vapour Pressure:	No data
Vapour Density:	Not applicable
Density:	0.89 g/cm ³
Water Solubility:	Insoluble
pH:	No data
Volatility:	No data
Odour Threshold:	No data

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: This product should be kept in a cool place, preferably below 30° C. Keep containers tightly closed. Containers should be kept dry. Keep containers and surrounding areas well ventilated.

Incompatibilities: strong oxidising agents.

Fire Decomposition: Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin. Splatters in the eyes can cause irritation and reversible damage.

SAFETY DATA SHEET

Classification of Hazardous Ingredients

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations

Section 12 - Ecological Information

Toxic to aquatic organisms. This product is unlikely to adversely effect the environment. Salts, acids and bases are typically diluted and neutralised when released to the environment in small quantities.

Breakdown of Chemical in Soil and Groundwater: In soil, degradation occurs within 1-2 weeks.

Section 13 - Disposal Considerations

Disposal: Dispose of used generator safely, wrap empty can in paper and place in waste bin. Do not re-use can.

Section 14 - Transport Information

Transport: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

Regulatory: All of the significant ingredients in this formulation are compliant with NRCS regulations.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code that provides information to emergency services
IARC	International Agency for Research on Cancer
NRCS	National regulator for compulsory specifications
NTP	National Toxicology Program (USA)
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

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