



Infectiguard surface & air sanitizer disinfecting fogger - Original

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Issue date:04/06/2020

Revision date: 06/06/2022

Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Trade name : Infectiguard surface & air sanitizer disinfecting fogger - Original
Type of product : Disinfectant
Product code : SH1379
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

1.3. Supplier's details

Manufacturer

Shield Chemicals (Pty) Ltd
9 London Rd
Apex
P.O. Box 1939
1501 Benoni - South Africa
T (011) 421 7111
info@shieldchem.co.za

1.4. Emergency telephone number

Emergency number : (011) 421 7111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Aerosol, Category 1 H222;H229
Serious eye damage/eye irritation, Category 2A H319
Hazardous to the aquatic environment — Acute Hazard, Category 2 H401
Full text of H statements : see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA) :



Signal word (GHS-ZA) : Danger
Hazardous ingredients : Ethanol; propane; butane, liquefied, under pressure
Hazard statements (GHS-ZA) : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H319 - Causes serious eye irritation.
H401 - Toxic to aquatic life
Precautionary statements (GHS-ZA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P264 - Wash hands, forearms and face thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Pressurised container: May burst if heated,Extremely flammable aerosol,Causes serious eye irritation,Toxic to aquatic life

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Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to the United Nations GHS |
|-----------------------------------|--------------------|-------------------------|---|
| Ethanol | | >80% of concentrate | Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Acute Tox. Not classified (Inhalation:dust,mist) Eye Irrit. 2A, H319 Aquatic Acute Not classified |
| butane, liquefied, under pressure | (CAS-No.) 106-97-8 | 20.0 - 30.0% of aerosol | Pyr. Gas Not classified Flam. Gas 1, H220 Aquatic Acute 2, H401 |
| propane | (CAS-No.) 74-98-6 | 10.0 - 20.0% of aerosol | Pyr. Gas Not classified Flam. Gas 1, H220 Aquatic Acute Not classified |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Extremely flammable aerosol.
- Explosion hazard : Pressurised container: May burst if heated.

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Mechanically recover the product.
- Other information : Dispose of materials or solid residues at an authorized site.

Infectiguard surface & air sanitizer disinfecting fogger - Original

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| propane (74-98-6) | |
|---|-----------------------------|
| South Africa - Occupational Exposure Limits (Airborne Pollutants) | |
| Local name | Propane |
| OEL TWA (mg/m ³) | 1800 mg/m ³ |
| OEL TWA (ppm) | 1000 ppm |
| Regulatory reference | Government Notice No. R 904 |
| butane, liquefied, under pressure (106-97-8) | |
| South Africa - Occupational Exposure Limits (Recommended Limits) | |
| Local name | Butane |
| OEL TWA (mg/m ³) | 1430 mg/m ³ |
| OEL TWA (ppm) | 600 ppm |
| OEL STEL (mg/m ³) | 1780 mg/m ³ |
| OEL STEL (ppm) | 750 ppm |
| Regulatory reference | Government Notice. R: 1179 |
| South Africa - Occupational Exposure Limits (Airborne Pollutants) | |
| Local name | n-Butane |
| OEL TWA (mg/m ³) | 1430 mg/m ³ |
| OEL TWA (ppm) | 600 ppm |
| OEL STEL (mg/m ³) | 1780 mg/m ³ |
| OEL STEL (ppm) | 750 ppm |
| Regulatory reference | Government Notice No. R 904 |

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

- Hand protection : Protective gloves
- Eye protection : Safety glasses
- Skin and body protection : Wear suitable protective clothing
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Liquid.
- Colour : clear.
- Odour : characteristic.
- Odour threshold : No data available
- pH : No data available
- pH solution : No data available
- Relative evaporation rate (butylacetate=1) : No data available

Infectiguard surface & air sanitizer disinfecting fogger - Original

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| | |
|---|---|
| Relative evaporation rate (ether=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Extremely flammable aerosol. |
| Vapour pressure | : No data available |
| Vapour pressure at 50 °C | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Relative density of saturated gas/air mixture | : No data available |
| Density | : No data available |
| Relative gas density | : No data available |
| Solubility | : No data available |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Pressurised container: May burst if heated. |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |
| Lower explosive limit (LEL) | : No data available |
| Upper explosive limit (UEL) | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Ethanol | |
|----------------------------|---------------|
| LD50 oral rat | 10470 mg/kg |
| LD50 dermal rabbit | > 15800 mg/kg |
| LC50 inhalation rat (mg/l) | 51 mg/l/4h |

| propane (74-98-6) | |
|---------------------------|---|
| LC50 inhalation rat (ppm) | > 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases)) |

| butane, liquefied, under pressure (106-97-8) | |
|--|-----------------------------|
| LC50 inhalation rat (mg/l) | 1442.738 - 1443 mg/l 15 MIN |
| LC50 inhalation rat (ppm) | 800000 ppm 15 MIN |

Infectiguard surface & air sanitizer disinfecting fogger - Original

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| | |
|-----------------------------------|----------------------------------|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

| | |
|--|---------|
| Infectiguard surface & air sanitizer disinfecting fogger - Original | |
| Vaporizer | Aerosol |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--------------------------|
| Ecology - general | : Toxic to aquatic life. |
| Hazardous to the aquatic environment, short-term (acute) | : Toxic to aquatic life. |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

| | |
|-------------------------------------|-----------|
| Ethanol | |
| LC50 fish 1 | 11.2 mg/l |
| EC50 Daphnia 1 | 5012 mg/l |
| Bioconcentration factor (BCF REACH) | < 10 |

| | |
|--------------------------|--|
| propane (74-98-6) | |
| LC50 fish 1 | 24 mg/l (96 h, Pisces, Literature study) |
| LC50 fish 2 | 49.9 mg/l (96 h, Pisces, Fresh water, QSAR) |
| EC50 Daphnia 1 | 7 mg/l (48 h, Daphnia magna, Literature study) |
| BCF fish 1 | 9 - 25 (Pisces, QSAR) |
| Log Pow | 1.09 - 2.8 (Experimental value, 20 °C) |

| | |
|---|---|
| butane, liquefied, under pressure (106-97-8) | |
| LC50 fish 1 | > 1000 mg/l (96 h, Pimephales promelas, QSAR) |
| EC50 72h algae (1) | 5.3 - 5.5 mg/l (Algae, QSAR) |
| Log Pow | 2.89 (Experimental value) |

12.2. Persistence and degradability

| | |
|--|-------------------------------------|
| Infectiguard surface & air sanitizer disinfecting fogger - Original | |
| Persistence and degradability | No additional information available |

| | |
|------------------------------|------------------------------------|
| Ethanol | |
| Chemical oxygen demand (COD) | 2.04 g O ₂ /g substance |

| | |
|-------------------------------|---------------------------------|
| propane (74-98-6) | |
| Persistence and degradability | Readily biodegradable in water. |

| | |
|---|---------------------------------|
| butane, liquefied, under pressure (106-97-8) | |
| Persistence and degradability | Readily biodegradable in water. |

12.3. Bioaccumulative potential

| | |
|--|-------------------------------------|
| Infectiguard surface & air sanitizer disinfecting fogger - Original | |
| Bioaccumulative potential | No additional information available |

| | |
|-------------------------------------|-----------------------------------|
| Ethanol | |
| Bioconcentration factor (BCF REACH) | See section 12.1 on ecotoxicology |

| | |
|---------------------------|--|
| propane (74-98-6) | |
| BCF fish 1 | See section 12.1 on ecotoxicology |
| Log Pow | See section 12.1 on ecotoxicology |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| | |
|---|--|
| butane, liquefied, under pressure (106-97-8) | |
| Log Pow | See section 12.1 on ecotoxicology |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

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Safety Data Sheet

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12.4. Mobility in soil

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|---|-------------------------------------|
| Mobility in soil | No additional information available |
| Ethanol | |
| Mobility in soil | 1 |
| propane (74-98-6) | |
| Surface tension | 0.016 N/m (-47 °C) |
| Log Pow | See section 12.1 on ecotoxicology |
| Ecology - soil | Not applicable (gas). |
| butane, liquefied, under pressure (106-97-8) | |
| Surface tension | < 0.1 N/m (0 °C) |
| Log Pow | See section 12.1 on ecotoxicology |
| Ecology - soil | Not applicable (gas). |

12.5. Other adverse effects

| | |
|-----------------------|---------------------------------------|
| Ozone | : Not classified |
| Other adverse effects | : No additional information available |




SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

| SANS | IMDG | IATA |
|--|---|---|
| 14.1. UN number | | |
| 1950 | 1950 | 1950 |
| 14.2. Proper Shipping Name | | |
| AEROSOLS | AEROSOLS | Aerosols, flammable |
| 14.3. Transport hazard class(es) | | |
| 2.1 | 2.1 | 2.1 |
|  |  |  Not applicable |
| 14.4. Packing group | | |
| Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | |
| Dangerous for the environment : No | Dangerous for the environment : No : | Dangerous for the environment : No |
| No supplementary information available | | |

14.6. Special precautions for user

- SANS

| | |
|---|--------------|
| Special provisions (SANS) | : 63, 190 |
| Limited quantities (SANS) | : See SP277 |
| Limited quantities (SANS) | : See SP277 |
| Packagings, large packagings and IBCs | : P003 |
| Packing instructions (SANS) | |
| Packagings, large packagings and IBCs Special packing instructions (SANS) | : PP17, PP87 |

- IMDG

| | |
|-----------------------------------|---|
| Special provisions (IMDG) | : 63, 190, 277, 327, 344, 381, 959 |
| Packing instructions (IMDG) | : P207, LP200 |
| Special packing provisions (IMDG) | : PP87, L2 |
| EmS-No. (Fire) | : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES |

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Safety Data Sheet

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EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
Stowage category (IMDG) : None

- IATA

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg
Special provisions (IATA) : A145, A167, A802
ERG code (IATA) : 10L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

No additional information available

SECTION 16: Other information

Issue date : 04/06/2020
Revision date : 06/06/2022

Full text of H-statements:

| | |
|------|--|
| H220 | Extremely flammable gas. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H227 | Combustible liquid |
| H302 | Harmful if swallowed. |
| H303 | May be harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways. |
| H305 | May be harmful if swallowed and enters airways |
| H313 | May be harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

SDS South Africa

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.