

# SAFETY DATA SHEET

according to Regulation (EC) No.1907/2006



## SANIFLUSH

Version 2 - Revision: 18.05.2023 - page 1 of 9

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

Trade name: SaniFlush  
Product description: Isopropanol cleaner  
Other identifiers: -

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Solution for cleaning ULV and thermal misting machines.  
Uses advised against: No specific uses advised against are identified.

#### Details of the supplier of the safety data sheet

Manufacturer/ Name: DF Trading CC  
Supplier Address: 110, Ravel Street - Theoville AH, Vanderbijlpark - 1911, South Africa  
Telephone: +27 16 987 7777  
E-mail: info@dynafoafrica.co.za

#### Emergency telephone number

South Africa Health Emergency: +27 086 155 5777 (Poison Information Helpline: 24 h)  
Customer Service: +27 016 987 8787 (Dyna Fog Africa Sales and Technical Information: Monday - Friday, 08:00 - 17:00)

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

##### Physical Hazards

Flammable Liquids, Category 3 H226: Flammable liquid and vapour.

##### Health Hazards

Serious eye damage/Eye Irritation, Category 2: H319: Causes serious eye irritation.  
Specific target organ - Single Exposure, Category 3: H336: May cause drowsiness or dizziness.

#### Label elements



Hazard pictograms:

Signal word: Warning

Hazard statements: H226: Flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.

Prevention precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P235: Keep cool.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof equipment.  
P242: Use non-sparking tools.  
P243: Take action to prevent static discharges.  
P261: Avoid breathing mist, vapours and spray.  
P264 + P265: Wash hands and face thoroughly after handling. Do not touch eyes.  
P271: Use only outdoors or in a well-ventilated area.

## SANIFLUSH

Version 2 - Revision: 18.05.2023 - page 2 of 9

|                                   |  |
|-----------------------------------|--|
|                                   | P280: Wear protective gloves, protective clothing, eye protection and face protection.   |
| Response precautionary statement: | P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water or shower.<br>P304 + P340 + P319: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.<br>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337 + P317: If eye irritation persists: Get medical help.<br>P370 + P378: In case of fire: Use dry agents to extinguish. |
| Storage precautionary:            | P403: Store in a well-ventilated place.<br>P405: Store locked up.  |
| Disposal precautionary statement: | P501: Dispose of contents and container in accordance with local regulations.  |

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Mixture

Description: A mixture containing of isopropanol and humectants.

Dangerous components:

| Name        | CAS No. | Classification according to Reg. (EC) 1272/2008 (CLP) | Hazard statement              | % (w/v)   |
|-------------|---------|---|-------------------------------|-----------|
| Isopropanol | 67-63-0 | Flam. Liq. 2<br>Eye Irrit. 2<br>STOT SE 3             | H225<br>H319<br>H336; C ≥ 20% | 10 - 30 % |

Additional information: Values are not product specifications. Ingredients not identified are proprietary or do not contribute to the classification. For the full wording of abbreviations and hazard statements, refer to section 16.

### 4. FIRST-AID MEASURES

#### Description of first aid measures

|                       |   |
|-----------------------|---|
| General advice:       | If medical advice is needed, have the product container or label at hand. If symptoms develop or persist, get medical help.   |
| First-aid responders: | First-aid responders should pay attention to self-protection and use the recommended personal protective equipment when the potential for exposure exists (refer to section 8).   |
| After inhalation:     | If vapours or mists have been inhaled, move the person to fresh air, away from the immediate source of exposure. Loosen any tight clothing, if worn. Keep the person warm, at rest and under observation. If the person is not breathing, call an ambulance, then give artificial respiration. If breathing is difficult or irregular, administer oxygen. |
| After skin contact:   | In case of contact with skin, remove and isolate contaminated clothing and shoes immediately. Rinse affected areas gently and thoroughly with neutral, non-abrasive soap and large amounts of running water. Clean contaminated clothing and shoes before reuse.  |
| After eye contact:    | In case of contact with eyes, rinse cautiously with large amounts of running water for at least 20 minutes, while holding eyelids apart. Remove contact lenses, if presented and easy to do. Continue rinsing. If eye irritation persists, get medical attention.   |
| After ingestion:      | If the product has been swallowed, rinse the mouth. Do not induce vomiting, unless directed to do so by the poison center or doctor. Do not leave the person unattended. If vomiting occurs, have the person lean forward. Never give anything by mouth to an unconscious person.   |

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

The effects of exposure (inhalation, skin contact or ingestion) to the substance may be delayed. Exposure can lead to irritation, burning, eye pain, conjunctivitis, swelling of the eye and swelling of the eyelid.

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

## SANIFLUSH

Version 2 - Revision: 18.05.2023 - page 3 of 9

There is no specific antidote available. Treat symptomatically and supportively.

### 5. FIREFIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media: Fine sprays, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam and dry chemical powder.  
Unsuitable extinguishing media: No limitations of extinguishing agents are given.

#### Special hazards arising from the substance or mixture

May form explosive peroxides. Containers can burst violently or explode when heated, due to excessive pressure build-up.  
May produce acrid smoke, fumes or mists on combustion.

#### Advice for firefighters

Protective equipment: Firefighters and other personnel who may be exposed should wear positive pressure self-contained breathing apparatus (SCBA) in combination with fire kits, firefighter gloves and firefighter footwear, especially when fighting a large fire.

Protective actions: Do not breathe fumes or vapours. Evacuate the surrounding area and keep unnecessary and unprotected personnel away. Ventilate confined areas before entering. Contain the fire if properly trained and equipped. Use extinguishing measures that are appropriate to the type of fire, local circumstances and surrounding environment. Fight fire from a safe distance, from an upwind, uphill and/or upstream position. Water spray may be used to cool unopened containers exposed to heat but avoid water coming in contact with the product. Remove undamaged containers from the site if it is safe to do so. If a leak or spill has not ignited, use water spray to disperse vapours and to protect people stopping the leak. Contain fire control materials for later disposal and avoid their release to the aquatic environment, keeping them out of sewers, watercourses and drinking water supplies. If risk of water pollution occurs, notify appropriate authorities. Clean all contaminated clothing before re-use. If contaminated clothing cannot be adequately decontaminated, dispose of as hazardous waste.

Emergency Action Code (EAC): 2Y

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment, and emergency procedures

Personal precautions: Avoid contact with skin and eyes. Avoid inhalation of vapours and mists. Do not touch contaminated surfaces or walk into spilt material.

Non-emergency personnel: Do not attempt to act without training. Keep unnecessary and unprotected personnel away. Notify emergency responders and leave the area.

Emergency responders: Keep unnecessary and unprotected personnel away. Remove all ignition sources. Provide adequate ventilation, especially in confined areas. Wear protective gloves, protective clothing and eye protection. Suitable fabrics include impervious cotton, cotton blends and PVC.

#### Environmental precautions

Spillages: Prevent spilled material from entering waterway and sewer systems. Collect and dispose of dyke materials (e.g. dry sand, containment oil, etc.) in with local regulations. Notify appropriate authorities immediately if large spillages have contaminated surface water, drains, watercourses, sewer systems, or groundwaters.

#### Methods and materials for containment and cleaning up

Containment: For large spills, suppress vapours, or mists with a water spray jet. If it is safe to do so, prevent further leakage or spillage by stopping the flow of the product. To prevent the product from spreading over a wide area or into the environment, seal surrounding drains and contain the leakage or spillage using inert materials. If dyked material can be recovered, store it in a sealed waste container for subsequent disposal. Label containers containing hazardous waste and materials employed in the cleanup of releases. Remove containers from the area as soon as possible. Clean contaminated objects and floors thoroughly, observing environmental regulations. Local authorities should be advised if significant spillages cannot be contained.

**SANIFLUSH**

Version 2 - Revision: 18.05.2023 - page 4 of 9

**Cleaning-up:** Soak up small spillages with inert absorbent material (e.g. cloth, fleece, dry sand, sawdust, etc.) immediately. Clean the surface thoroughly to remove residual contamination. Never reuse or return spills to original containers. Collect, store, and dispose of contaminated materials properly, as they may pose the same hazard as this chemical.

**Reference to other sections**

For information regarding safe handling, refer to section 7. For information regarding individual protection measures, refer to section 8. For information regarding waste disposal, refer to section 13.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Recommendations:** Do not handle until all safety precautions have been put in place. Wear protective gloves, eye protection and face protection. Avoid contact with skin and eyes. Avoid inhalation of vapours and mists. Handle and open containers with care to avoid spills, waste, and release to the environment. Keep containers tightly closed when not in use. Do not reuse empty containers.

**Protection against fire:** Do not place containers close to heat, hot surfaces, sparks, open flames or other ignition sources. Do not smoke or use sparking tools whilst handling this product. Take precautionary measures against electrostatic discharges. Vapours may form an explosive mixture with air.

**General hygienic measures:** Do not eat, drink or smoke whilst handling this product. Wash hands and face immediately after handling this product and before eating, drinking, smoking, or using the toilet. Remove clothing and personal protective clothing equipment before leaving the working area.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store in a cool, dry and well-ventilated place. Keep in the original labelled container. Keep containers upright and tightly closed. Prevent containers from freezing and from physical damage. Keep out of reach of unauthorized persons, children, or animals. Store in such a manner as to prevent cross-contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

**Conditions to avoid:** Do not store under direct sunlight or close to heat, hot surfaces, sparks, open flames or other ignition sources. Do not store close to incompatible materials, food, animal feeding stuff, fertilizers, pharmaceuticals, cosmetics, or water supplies.

**Packaging materials:** High-density polyethylene (HDPE).

**Incompatible substances:** Acids, oxidizing agents, halogenated compounds and acid anhydrides.

**Further information:** Refer to local regulations to comply with quantity limits of hazardous chemicals under storage.

**Specific end uses(s)**

**Cleaning agent:** ULV misting, thermal misting and thermal fogging machines and systems.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

*These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions. Comply with occupational safety, environmental, fire and other applicable local regulations.*

**Control parameters**

| Legal basis | Components  | CAS-No. | Control parameters   |
|-------------|-------------|---------|--|
| EFSA        | Isopropanol | 67-63-0 | ADI: 25 mg/kg bw/day   |
| REACH       | Isopropanol | 67-63-0 | DNEL (workers, inhalation) – systemic effects, long term: 500 mg/m <sup>3</sup><br>DNEL (workers, inhalation) – systemic effects, short term: 1000 mg/m <sup>3</sup><br>DNEL (workers and general population, inhalation, dermal) – local effects, long and short term: No hazard identified<br>DNEL (workers, dermal) – systemic effects, long term: 888 mg/kg bw/day |

**SANIFLUSH**

Version 2 - Revision: 18.05.2023 - page 5 of 9

|  |  |  |  |
|--|--|--|--|
|  |  |  | DNEL (workers and general population, dermal) – systemic effects, short term: No hazard identified<br>DNEL (workers and general population, eyes): Low hazard (no threshold derived)<br>DNEL (general population, inhalation) – systemic effects, long term: 89 mg/m <sup>3</sup><br>DNEL (general population, inhalation) – systemic effects, short term: 178 mg/m <sup>3</sup><br>DNEL (general population, dermal) – systemic effects, long term: 319 mg/kg bw/day<br>DNEL (general population, oral) – systemic effects, long term: 26 mg/kg bw/day<br>DNEL (general population, oral) – systemic effects, short term: 51 mg/kg bw/day |
|--|--|--|--|

Additional information: For the full wording of abbreviations, refer to section 16. Monitoring of the concentration of substances in the workplace may be required to confirm compliance with OEL and the adequacy of exposure controls.

**Exposure controls**

Appropriate engineering controls

Eyewash stations and safety showers should be available in the vicinity of use or handling. Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapours and mist below the applicable workplace exposure limits indicated above, especially in confined areas.

Individual protection measures

- General hygienic measures: Do not eat, drink or smoke whilst handling this product. Wash hands and face immediately after handling this product. Use appropriate degowning techniques to remove potentially contaminated clothing. Wash contaminated clothing and personal protective equipment before reuse. Contaminated work clothing should not be allowed out of the workplace. Dispose of clothing and other absorbent materials that have been drenched or heavily contaminated with this mixture in accordance with local regulations.
- Eye/face protection: Wear tight-fitting, chemical splash goggles, face shield or other full-face protection to prevent eye and face contact with vapours, mists or splashes.
- Hand protection: Wear chemical-resistant, impervious gloves with a minimum thickness of 5 mm. Nitrile rubber gloves may be used.
- Respiratory protection: Where exposure through inhalation may occur, wear a full-face mask, half mask or quarter mask respirators with replaceable filter cartridges. N95, R95, or P95 filters may be used.
- Body protection: Wear appropriate chemical-resistant overalls, footwear, and socks. Additional body garments should be used based on the task being performed, e.g. PVC rain suits for chemical loading, off-loading, or dilution.

Environmental exposure controls

Keep containers tightly closed when not in use. Avoid release to the environment.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

|                               |                |
|-------------------------------|----------------|
| Physical state:               | Liquid         |
| Aspect:                       | Homogeneous    |
| Colour:                       | Colourless     |
| Odour:                        | Not available  |
| Melting point/freezing point: | Not available  |
| Boiling point/boiling range:  | Not available  |
| Flammability:                 | Flammable      |
| Ignition temperature:         | Not available  |
| Explosive properties:         | Not available  |
| Explosion limits:             | Not available  |
| Flash point:                  | 24 °C          |
| Auto-ignition temperature:    | Not applicable |
| Decomposition temperature:    | Not available  |
| pH-value:                     | Not available  |

# SAFETY DATA SHEET

according to Regulation (EC) No.1907/2006



## SANIFLUSH

Version 2 - Revision: 18.05.2023 - page 6 of 9

|  |   |
|--|---|
| Viscosity:                                 | Not available   |
| Solubility in/miscibility with water:      | Miscible with water   |
| Segregation coefficient (n-octanol/water): | Refer to section 12 for information on the ingredients of the mixture |
| Vapor pressure:                            | Not available   |
| Density:                                   | 0.952 at 20 °C  |
| Vapour density:                            | Not available   |

## 10. STABILITY AND REACTIVITY

|                                     |  |
|-------------------------------------|--|
| Reactivity:                         | Vapours may form an explosive mixture with air. Violent to explosive reaction with strong oxidizing agents. May form peroxides in prolonged storage or in large quantities.  |
| Chemical stability:                 | Chemically stable under standard use and storage conditions.   |
| Possibility of hazardous reactions: | May react with pyrophoric liquids, pyrophoric solids, strong oxidizing liquids, strong oxidizing solids, self-reactive substances and mixtures, self-heating substances and mixtures, substances and mixtures which in contact with water emit flammable gases, organic peroxides and desensitised explosives. |
| Conditions to avoid:                | Heating.   |
| Incompatible materials:             | Acids, oxidizing agents, halogenated compounds and acid anhydrides.  |
| Hazardous decomposition products:   | May form explosive peroxides. May produce acrid smoke, fumes or mists on combustion.   |

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Isopropanol

|                                    |  |
|------------------------------------|--|
| Acute oral:                        | LD50 - rat: 5840 mg/kg bw  |
| Acute dermal:                      | LD50 - rabbit: 13900 mg/kg bw                                      |
| Acute inhalation:                  | LC50 (6h) - rat: 25 mg/L air                                       |
| Skin corrosion/skin irritation:    | Rabbit: No adverse effect observed (not irritating)                |
| Serious eye damage/eye irritation: | Rabbit: Adverse effect observed (irritating)                       |
| Respiratory irritation/corrosion:  | No data available  |
| Skin sensitization:                | Guinea pig: No adverse effect observed (not sensitizing)           |
| Germ cell mutagenicity:            | Salmonella typhimurium: No adverse effect observed (non-mutagenic) |
| Carcinogenicity:                   | No data available  |
| Reproductive toxicity:             | No data available  |
| STOT – single exposure:            | No data available  |
| STOT – repeated exposure:          | No data available  |
| Aspiration hazard:                 | No data available  |

### Information on other hazards

Endocrine-disrupting properties: Substances of the mixture are not identified as having endocrine-disrupting properties.

## 12. ECOLOGICAL INFORMATION

### Toxicity

#### Isopropanol

|                          |  |
|--------------------------|--|
| Fish:                    | LC50 (96h) - <i>Pimephales promelas</i> (fathed minnow): 9640 mg/L |
| Aquatic invertebrates:   | EC50 (24h) - <i>Daphnia magna</i> (water flea): 10000 mg/L         |
| Algae and cyanobacteria: | No data available  |
| Earthworms:              | LC50 (28d) - <i>Eisenia fetida</i> (manure worm): 63.43 mg/kg soil |
| Birds:                   | No data available  |
| Bees:                    | No data available  |

### Persistence and degradability

#### Isopropanol

Hydrolysis: No data available

# SAFETY DATA SHEET

according to Regulation (EC) No.1907/2006



## SANIFLUSH

Version 2 - Revision: 18.05.2023 - page 7 of 9

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Biodegradation in water:           | Readily biodegradable in freshwater |
| Biodegradation in water sediments: | No data available                   |
| Biodegradation in soil:            | No data available                   |
| Adsorption/desorption:             | Koc: 3.478 at 20 °C                 |
| Henry's law constant:              | No data available                   |

### Bioaccumulative potential

#### Isopropanol

|  |                              |
|--|------------------------------|
| Segregation coefficient (n-octanol/water): | Log Kow: 0.05 at 25 °C       |
| Bioconcentration factor:                   | BCF – aquatic species: 1.015 |

### Mobility in soil

Isopropanol is highly mobile in soil and may be transported by soil water.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Residues disposal

|                      |   |
|----------------------|---|
| Protective measures: | The safety precautions applied to the handling of the product shall be considered when disposing of residues. For further details, refer to section 7.  |
| Method:              | Do not burn residues. Do not dispose of residues with normal waste, or to sewer systems. Surplus product, rinse water or any residue which cannot be used according to label instructions shall be properly disposed of according to local regulations. |
| Recommendations:     | To reduce the problems associated with the disposal of hazardous chemicals, consider purchasing quantities limited to the amounts needed at each period. Prepare only as much product as needed at each application, following the instructions of use. |

#### Container disposal

|                      |   |
|----------------------|---|
| Protective measures: | Care should be taken when handling empty containers that have not been thoroughly cleaned or rinsed out. Empty containers may retain vapours and product residues and hence be potentially hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers that were not thoroughly rinsed or cleaned to heat, flame, sparks or other sources of ignition. They may explode and cause injury and/or death.   |
| Method:              | Do not burn empty containers. Do not reuse empty containers for any other purpose. Do not dispose of contaminated containers in normal waste. Used containers shall be closely secured and stored until they can be safely disposed of. If possible, triple rinse or pressure rinse contaminated containers. If recycling facilities are available, deliver decontaminated containers to the designated collection point. If recycling facilities are not available, puncture, break or crush decontaminated containers to avoid reuse and provide appropriate disposal in accordance with local regulations. |

### Sewage disposal

Do not wash or dispose of untreated waste, spillages, residues or product surplus into sewers or water systems.

### Other disposal recommendations

The generation of waste should be minimised or avoided wherever possible. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area.

## 14. TRANSPORT INFORMATION



|                          |                         |
|--------------------------|-------------------------|
| Transport pictogram:     |                         |
| UN Number or ID number:  | UN1993                  |
| UN proper shipping name: | FLAMMABLE LIQUID, N.O.S |

# SAFETY DATA SHEET

according to Regulation (EC) No.1907/2006



## SANIFLUSH

Version 2 - Revision: 18.05.2023 - page 8 of 9

Transport hazard class(es): 3 Flammable liquid  
Packaging group: III Substances presenting low danger  
Environmental hazards: No  
Maritime transport in bulk: Not applicable

### 15. REGULATORY INFORMATION

#### Safety, health, and environmental regulations/legislation specific for the substance or mixture

National regulations: In compliance with Occupational Health and Safety Act (85/1993): Regulations for Hazardous Chemical Agents, 2021, published by Government Notice No. 11263 (Government Gazette No. 44348) on 29 March 2021.  
Other regulations: In compliance with Regulation (EC) No.1907/2006 of the European Parliament and of the Council on 18 December 2006.  
Reference documents: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 2021. Dangerous Goods Emergency Action Code List (TDG), 2021

#### Chemical safety assessment

For this product, a chemical safety assessment was not carried out.

### 16. OTHER INFORMATION

#### Revisions

| Version | Date issued | Updates            |
|---------|-------------|--------------------|
| 1       | 01.07.2022  | GHS CLP compliance |
| 2       | 18.05.2023  | GHS CLP review     |

#### Full text of H-Statements listed

H225 Highly flammable liquid and vapour  
H319 Causes serious eye irritation  
H336 May cause drowsiness or dizziness

#### Full text of abbreviations of hazard categories listed

Eye Irrit. Eye irritation  
Flam. Liq. Flammable liquid  
STOT SE Single target organ toxicity (single exposure)

#### Full text of abbreviations of control parameters listed

ADI Acceptable Daily Intake  
DNEL Derived No-Effect Level  
EFSA European Food Safety Authority  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

#### Full text of abbreviations of toxicity and ecotoxicity reference values listed

EC50 Effective concentration estimated to produce a specific effect in 50% of the test organisms.  
LC50 Lethal concentration estimated to cause the death of 50% of the test organisms.  
LD50 Lethal dosage estimated to cause the death of 50% of the test organisms.

#### Disclaimer

Each user should read this Safety Data Sheet (SDS) and consider the safety precaution recommended. This SDS summarises the present state of our knowledge about the health and safety hazard information and the safe handling and use of the product and is to be used for this product only. The information was obtained from sources which we believe are reliable and is provided in good faith, but do not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. The conditions or methods of handling, storage, use or disposal



## **SAFETY DATA SHEET**

*according to Regulation (EC) No.1907/2006*

### **SANIFLUSH**

*Version 2 - Revision: 18.05.2023 - page 9 of 9*

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of the product are beyond our control and for this reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.