



## Material Safety Data Sheet

**Product : SURFAX**

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

**Manufacturer :**

**BioShields - A Division of Tulip Diagnostics Pvt. Ltd.**

Plot No. M – 46, Phase III B,

Verna Industrial Estate,

Verna, Goa, 403 722,

INDIA.

**Product name :** SURFAX

**Synonyms :** Disinfectant Cleaner for Floor and Hard Surfaces

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

The ingredients at their given percentages in this product are not considered hazardous to your health.

Components	CAS Number	% (w/v or v/v)
Sodium Hypochlorite Solution	7681-52-9	> 0.6 % & < 1.5 %

### 3. HAZARDS IDENTIFICATION

**Principle routes of exposure :**

**Oral :** Can irritate the tissues of mouth, oesophagus, and other tissues of the digestive system. Symptoms of over exposure can include vomiting and nausea.

**Eye contact :** Contact may cause severe irritation and damage, especially at higher concentration.

**Skin contact :** May irritate skin.

**Ingestion :** May cause nausea, vomiting.

**Inhalation :** May cause irritation to the respiratory tract, (nose and throat); symptoms may include coughing and sore throat.

**Physico – chemical properties :** This product may cause eye, skin or respiratory irritation.

### 4. FIRST AID MEASURES

**Eye contact :** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**Ingestion :** If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Inhalation :** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Skin contact :** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

### 5. FIRE – FIGHTING MEASURES

**Flash point (°C) :** Information not available.

**Autoignition temperature :** Not applicable.

**Flammable limits in air - lower (%) :** Not applicable.

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<b>Fire fighting information</b>	: Not considered to be a fire hazard. Substance releases oxygen when heated, which may increase the severity of an existing fire. Containers may rupture from pressure build-up.
<b>Suitable extinguishing media</b>	: Use any means suitable for extinguishing surrounding fire. Use water spray to cool fire-exposed containers, to dilute liquid, and control vapour.
<b>Extinguishing media which must not be used for safety reasons</b>	: None.
<b>Special protective equipment for firefighters</b>	: Wear self-contained breathing apparatus for fire fighting if necessary.
<b>Hazardous combustion products</b>	: May release chlorine gas.

## 6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Dispose of in a manner consistent with federal, state and local regulations.

## 7. HANDLING AND STORAGE

### Handling :

<b>Technical measures/precautions</b>	: Use of appropriate personal protective equipment recommended.
<b>Safe handling advice</b>	: Avoid breathing vapours or mist. Avoid contact with skin and eyes.

### Storage :

<b>Technical measures/storage conditions</b>	: Store in a cool, dry, well-ventilated place away from incompatible materials. Do not store in metal containers.
<b>Incompatible products</b>	: Avoid contact with acids.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Eye protection</b>	: Safety glasses/Splash goggles required. Ensure eyewash stations and safety showers are available.
<b>Hand protection</b>	: Use Neoprene, rubber or plastic gloves.
<b>Skin and body protection</b>	: Wear appropriate clothing to prevent skin and body exposure.
<b>Respiratory protection</b>	: Use approved chlorine gas respirator or self-contained breathing apparatus.
<b>Other/general protection</b>	: Not required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	: Clear liquid
<b>Physical state</b>	: Liquid
<b>Colour</b>	: Colourless to pale yellow
<b>pH</b>	: 12.0 – 13.0
<b>Odour</b>	: Pleasant
<b>Water Miscibility</b>	: Miscible (Clear solution)

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	: Stable under recommended storage conditions.
<b>Hazard polymerization</b>	: Hazardous polymerization does not occur.
<b>Hazardous decomposition products</b>	: Chlorine gas and hydrogen chloride fumes.

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- Materials to avoid** : Acids, metals, amines, ammonia, ammonia salts, oxidizable materials, urea, methanol, cellulose.
- Conditions to avoid** : Direct exposure to heat and sunlight.

## 11. TOXICOLOGICAL INFORMATION

### Local effects

- Oral** : Not determined.
- Eye irritation** : Severe irritant to the eye.
- Skin irritation** : May cause skin irritation.
- Inhalation** : Inhalation of mist or vapours may cause irritation to the nose and throat.

### Chronic toxicity

- Oral** : Not determined.
- Inhalation** : Not determined.
- Dermal** : Not determined.

### Specific effects

- Corrosive effects** : Not determined.
- Target organ effects** : Not determined.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

- Ecotoxicity effects** : No information found.
- Aquatic toxicity effects** : No information found.
- Mobility** : No information found.
- Persistence / degradability** : No information found.
- Bioaccumulation** : No information found.
- Degradation** : No information found.

## 13. DISPOSAL CONSIDERATIONS

This product may be disposed off in accordance with the regulations laid down by the federal, state and local regulatory authority.

## 14. TRANSPORT INFORMATION

- DOT** : Not Applicable
- IATA/ICAO** : Not Applicable

## 15. REGULATORY INFORMATION

- CAS No.** : Not applicable.
- Labeling** : For External Use Only.
- Safety Phrases** : Avoid contact with the mucous membrane. In case of contact, wash immediately with plenty of water and seek medical attention.

## 16. OTHER INFORMATION

- Additional advice** : None
- Literary Reference** : None



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**End of Safety Data Sheet**