

# SAFETY DATA SHEET

## Hazardous Chemical, Non-Dangerous Goods

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** TERMINEX  
**Recommended Use:** Chlorine Dioxide Sanitising Agent

**Supplier:** Hygiene Technologies Ltd  
**Street Address:** 28 Rangitane Rd  
Whakatu, Hastings 4102  
New Zealand

**Telephone:** + 64 6 876 4111 or 0800 732 525  
**Facsimile:** + 64 6 878 3802

**Emergency Telephone number:** **National Poisons Centre (24/7)**  
**0800 POISON (0800 764 766)**

### 2. HAZARDS IDENTIFICATION

#### Hazardous Substances

This material is hazardous according to criteria of EPA New Zealand.

#### ATTENTION

This SDS has been prepared in line with current legal requirements, however these do not recognise Chlorine dioxide as a substance that can be shipped around and used like Terminex can, only as a substance that is generated in-situ, on demand. As responsible manufacturers, we wish to point out that there is a risk of toxic gas inhalation if containers of Terminex are left unsealed or stored incorrectly. In the event of a significant (2 Ltr +) spillage of undiluted Terminex from its container, immediately clear the area of personnel. Spill control personnel must wear suitable full-face respirators (refer Section 8) before attempting to clean up the Terminex spill.



**Signal Word**  
WARNING

#### Hazard Classifications

Aquatic Toxicity (acute) – Category 3  
Aquatic Toxicity (chronic) – Category 4

#### Hazard Statements

Harmful to aquatic life with long lasting effects

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**Prevention Statements:**

None Allocated

**Response Statements:**

None Allocated

**Storage Statements**

None Allocated

**Disposal Statement**

None Allocated

**General Statement**

Harmful to terrestrial vertebrates.

### 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS No.	PROPORTION
Sodium Chlorite	7758-19-2	< 1.00% (w/w)
Hydrochloric Acid 33%	7647-01-0	< 1.00% (w/w)
Non Hazardous Ingredients		to 100%

### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone New Zealand 0800 764 766).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist call a POISON CENTRE or doctor.

**Skin Contact:** If skin contact occurs, remove contaminated clothing and flush skin with running water. If symptoms occur seek medical assistance.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist contact a doctor.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious person. If vomiting occurs give further water. If symptoms persist call a POISON CENTRE or doctor.

**Advice to Doctor:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Specific Hazard</b>	Non-combustible material.
<b>Suitable Extinguishing Media:</b>	Non-combustible. If material is involved in a fire use media appropriate for surrounding fire conditions. Safe to use water fog, fine water spray, alcohol resistant foam, standard foam and dry agents (carbon dioxide, dry chemical powder).
<b>Fire fighting further Advice:</b>	Non-combustible, however following evaporation of aqueous component residual material can decompose if involved in a fire, emitting toxic fumes. If safe to do so, remove containers from path of fire. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk to exposure to products of decomposition.
<b>HAZCHEM</b>	Not Applicable

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination and to avoid inhalation of vapours. Wipe up with non-combustible absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS (+ Refer Statement in Section 2)

If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

**Dangerous Goods - Initial Emergency Response Guide No:** Not Applicable

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols.

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**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep container standing upright. Keep containers tightly closed when not in use - check regularly for leaks. Only store in the original packaging from manufacturer, and ensure appropriate pack size is purchased relative to usage, so that solution is not left in containers beyond the Use Before Date printed on the label.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National occupational exposure limits:**

No value assigned for this specific material by the NZ Occupational Safety and Health Services (OSH).

**Biological Limit Values:**

As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.

**Engineering Measures:**

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

**Personal Protective Equipment:**

GLOVES, SAFETY GLASSES, RESPIRATOR (if inhalation risk exists).

Wear safety glasses, and use PVC vinyl or rubber gloves. If risk of inhalation exists wear a respirator meeting the requirements of AS/ NZS 1715 and AS/ NZS 1716 (Acid-gas type recommended). Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

**Hygiene measures:**

Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Liquid
<b>Appearance:</b>	Clear Yellow
<b>Odour:</b>	Chlorine Like
<b>pH</b>	2.0 - 3.0
<b>Freezing Point (°C):</b>	< 0°C
<b>Boiling Point (°C):</b>	> 100°C
<b>Flash Point (°C):</b>	Not Applicable
<b>Flammability</b>	Not Available
<b>Explosive Limits (%)</b>	Not Available
<b>Vapour Pressure</b>	Not Available

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Vapour Density	Not Available
Specific Gravity	0.99 - 1.01
Solubility:	Soluble in Water
Partition Coefficient	Not Available
Autoignition Temperature (°C):	Not Available
Decomposition Temperature (°C):	Not Available
Kinematic Viscosity	Not Available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	This material is stable when stored and used as directed.
<b>Conditions to Avoid:</b>	Elevated temperatures, direct sunlight and moisture.
<b>Incompatible Materials:</b>	Reducing agents, acids, combustible materials and sources of ignition.
<b>Hazardous Decomposition Products:</b>	The product will decompose in a fire, giving off toxic hydrogen chloride.
<b>Hazardous reactions</b>	No known hazardous reactions.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and over exposure occurs are:

### ACUTE EFFECTS

<b>Inhalation</b>	Material may be an irritant to mucous membranes and respiratory tract.
<b>Skin contact</b>	Contact with skin may result in irritation. Prolonged or repeated contact may cause an allergic skin reaction in individuals known to suffer allergic reactions to chemical products.
<b>Ingestion</b>	Swallowing can result in abdominal pain, nausea, diarrhoea and gastrointestinal irritation.
<b>Eye Contact</b>	May be irritating to eyes.

### ACUTE TOXICITY

<b>Inhalation</b>	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LC50 > 20.0 mg/L for vapours or LC50 > 5.0 mg/L for dust and mist or LC50 > 5,000 ppm gas.
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<b>Skin contact</b>	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5,000 mg/Kg bw
<b>Ingestion</b>	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5,000 mg/Kg bw
<b>Corrosion/Irritancy</b>	Eye: this material has been classified as non-hazardous. Skin: this material has been classified as not corrosive or irritating to skin.
<b>Sensitisation</b>	Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.
<b>Specific target organ toxicity (single exposure)</b>	This material has been classified as non-hazardous.
<b>Specific target organ toxicity (repeat exposure)</b>	This material has been classified as non-hazardous.
<b>Aspiration Hazard</b>	This material has been classified as non-hazardous.
<b><u>ACUTE TOXICITY</u></b>	
<b>Mutagenicity</b>	This material has been classified as non-hazardous.
<b>Carcinogenicity</b>	This material has been classified as non-hazardous.
<b>Reproductive toxicity</b>	This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

<b>Aquatic Hazard</b>	Harmful to aquatic life with long lasting effects.
<b>Bioaccumulation Potential</b>	No information available
<b>Ecotoxicity in the Soil Environment</b>	This material has been classified as non-hazardous.
<b>Ecotoxicity to terrestrial vertebrates</b>	Harmful to terrestrial vertebrates.
<b>Ecotoxicity to terrestrial invertebrates</b>	This material has been classified as non-hazardous.
<b>Ecotoxicity</b>	No information available

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**Persistence and Degradability** No information available

**Mobility** No information available

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

Do NOT recycle or re-use this material or its packaging. The packaging for this product can only be used once. Dispose of in accordance with your local Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not Classified as Dangerous Goods by the criteria of the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

<b>Approved Handler</b>	No
<b>Location Compliance Certificate</b>	No
<b>Fire Extinguishers</b>	No
<b>Signage</b>	Yes
<b>Emergency Response</b>	Yes
<b>Hazardous Atmosphere Zone</b>	No

**This material is not subject to the following international agreements:**

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- International Convention for the Prevention of Pollution from Ships (MARPOL)
- Basel Convention (Hazardous Waste)

All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

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## 16. OTHER INFORMATION

**Date Issued:** October 23, 2023  
**Version:** 2.0  
**Replaces:** December 18, 2018

Safety Data Sheets are updated frequently. Please ensure that you have a current copy. This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate.

However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

**End of Safety Data Sheet**