

# CHLORPLUS



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Product: CHLORPLUS

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## COMPANY DETAILS

Name: BD Chemicals	Emergency Tel. No. (011)7765076/0834693828/0783892507
Address: 56 Stanley Rd Knights Germiston, Gauteng, South Africa	Postal Address: PO Box 4120 Germiston South 1411
Tel. No. (011) 7765076	

## 1. PRODUCT IDENTIFICATION

Trade Name:	CHLORPLUS
Description:	Liquid Disinfectant/Bleaching agent

## 2. HAZARDOUS COMPONENTS

	CAS#	ECC Class	%
Sodium hypochlorite	7681-52-9	231-668-3	3 - 6



## 3. HAZARD IDENTIFICATION

Main hazard	Corrosive material. Irritant to mucous membranes of the eyes. Skin irritant. Inhalation can result in irritation of respiratory tract. Toxic if ingested.
Explosive hazard	Not Applicable
Fire	Not Flammable
Chemical hazard	Reacts with acids with liberation of toxic chlorine gases
Health effects - eyes	Severe irritant to mucous membranes of eyes. May cause tearing, irritation or chemical burns. Untreated contact may cause blindness.
Health effects - skin	Severe skin irritant or burns. Repeated exposure can lead to sensitization
Health effects - ingestion	Causes chemical burns of mouth, throat and stomach
Health effects - inhalation	Damages airways and lungs, depending upon amount and duration of exposure. Effects vary from irritation to bronchitis or pneumonia, depending on exposure. People with lung problems may be more affected


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## 4. FIRST AID

Product in eyes:	Flush at once with cool running water. Remove contact lenses. Continue flushing for at least 15 min, holding eyelids apart so as to rinse entire eye. <b>CALL A PHYSICIAN IMMEDIATELY.</b>
Product on skin:	Immediately flush skin with plenty of cool running water for at least 15 min while removing contaminated clothing and shoes; discard or wash well before reuse.
Product ingested:	Rinse mouth at once; then drink 1 or 2 glasses of water. <b>DO NOT</b> induce vomiting. <b>NEVER</b> give anything by mouth to an unconscious person.
Product inhaled:	Immediately move to fresh air. In the event of exposure to chlorine as a result of decomposition, treat as for chlorine exposure

\*For any serious contact situation – GET MEDICAL ATTENTION\*

## 5. FIRE FIGHTING MEASURES

Extinguishing media	Use method appropriate for surrounding fire. The product does not support combustion
Special hazards	High temperatures may generate hazardous decomposition products including chlorine gas. Wear self-contained breathing apparatus. Keep containers exposed to fire cool by spraying with water.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use proper protective equipment
Environmental precautions	Sodium hypochlorite is harmful to aquatic life. Do not allow to enter sewers or waterways.
Small spills	Using water, flush to sewer. Can be neutralized before flushing to sewer.
Large Spills	Dike or dam large spills. Pump to containers or soak up with sand or an inert absorbent. Using Water, flush residue to sewer


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### 7. HANDLING AND STORAGE

Suitable material	HDPE drums with vent cap
Loading/unloading precautions	Wear protective equipment
Handling/storage precautions	Wear protective equipment. Store in cool, dry well ventilated place

### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Personal protection- respiratory	Avoid breathing mists or vapors of this product
Personal protection - eyes	Wear chemical splash goggles. For continued or severe exposure wear a face shield over goggles.
Personal protection - skin	Wear any industrial rubber gloves, synthetic apron, other protective equipment as necessary to prevent skin contact
Other	Access to emergency eye wash and shower is recommended



### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear light yellow liquid
Odor	Chlorine Odour
pH	11 – 12.5(1%)
Specific Gravity	1.12 (20°C)
Solubility - water	Mixes with water in all proportions
Flammability	Not Flammable
Flash point	Not Applicable
Melting point	Not Applicable
Boiling point	→ 100°C
Auto-flammability	Nil
Explosive properties	Oxidizing agent
Vapor pressure	Not Applicable


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## 10. STABILITY AND REACTIVITY

Conditions to avoid	Mix only with water. Do not mix with acids or ammonia – will cause hazardous vapours (chlorine)
Stability	Heat, exposure to blue and ultra-violet light, and the presence of iron, copper, nickel impurities (and their alloys, e.g. brass and stainless steel) increase the rate of product decomposition. Store in cool areas away from acid and direct sunlight.
Hazardous decomposition products	High temperatures may generate hazardous decomposition products including chlorine gas

## 11. TOXICOLOGICAL INFORMATION

Acute exposure	Irritant to skin and eyes
Chronic exposure	Nil
Carcinogenicity	Nil
Mutagenicity	Nil
Neurotoxicity	Nil
Reproductive hazards	Nil

## 12. ECOLOGICAL INFORMATION

General	Large quantities released will produce pH level changes.
Aquatic	Sodium hypochlorite is harmful to aquatic life.
Biodegradability	Sodium hypochlorite decomposes to form salt (sodium chloride), sodium chlorate and some oxygen; decomposition is increased by heat and exposure to light.
Bio-accumulation	Not Expected to Bioaccumulate

## 13. DISPOSABLE CONSIDERATIONS

Unused products are corrosive, consult local authorities for limits on chemical waste disposal. Rinse out empty container thoroughly with water before disposal.

## 14. TRANSPORT INFORMATION

UN No.	1791
Packing Group	II
Class	8


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## 15. REGULATORY INFORMATION

### RISK PHRASES

**Risk phrases:**

R31 Develops toxic gases upon contact with acid  
R36/38 Irritates eyes and skin

**Safety phrases:**

S2 Keep out of reach of children  
S3/7/9 Keep container tightly closed in a cool well ventilated place  
S26 Upon contact with the eyes, rinse thoroughly with water and consult a doctor

## 16. OTHER INFORMATION

The above information is believed to be correct with respect to the formula used to manufacture the product. As data, standards and regulations change, and conditions of use and handling are beyond our control, No WARRANTY, EXPRESS OR IMPLIED, IS MADE TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

Rev. no.	Rev. date	Reason for revision	Responsible person
0	10/06/2016	First issue in 16-point format	Richard Gaddi



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