

**SAFETY DATA SHEET**

**1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION**

**Product name:** BD GERMICIDE 20

**Recommended use:** Disinfectant

**Product dilution info:** Product sold is ready to use

**Supplier:** Capacity health care

**Street Address:** 298 Lena Ahrens Road  
Glenwood  
Durban  
KZN

**Telephone:** 031 205 0420  
**Fax:** 0867476446

**Emergency Telephone number:** 031 205 0420

**2. HAZARDS IDENTIFICATION**

This material is hazardous according to health criteria of South Africa.

**Signal Word**  
Warning

**Hazard Classifications**  
Serious Eye Damage/Irritation - Category 2A

**Hazard Statements**  
May causes an allergic skin reaction  
Causes eye irritation

**Prevention Precautionary Statements**

Keep out of reach of children.  
Read label before use.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Keep container tightly closed.  
Take precautionary measures against static discharge.

#### Response Precautionary Statements

If medical advice is needed, have product container or label at hand.

**IF IN EYES:** 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.

#### Storage Precautionary Statement

Store in a well-ventilated place. Keep cool.

#### Disposal Precautionary Statement

Dispose of contents/container in accordance with local, regional, national and international regulations.

### 3. COMPOSITION INFORMATION

#### CHEMICAL ENTITY

	CAS NO	PROPORTION
Sodium hypochlorite	7681-85-9	0.5 % (w/v)
Amide	68424-851	0.1 % (w/v)
Benzyl Chloride		
Ingredients determined to be non-hazardous		Balance

### 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### General information

**Get medical attention immediately!**

##### Inhalation

Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary.

##### Ingestion.

Do not induce vomiting. If confined to the mouth, rinse mouth thoroughly and ensure water is not swallowed. If swallowed, drink plenty of water. If substance has been swallowed, give water to drink immediately

##### Skin contact

Remove contaminated clothes and rinse skin thoroughly with water.

##### Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

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

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

## 5. FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

Suitable for extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

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

Not flammable or combustible

Thermal decomposition will evolve Chlorine, hydrogen chloride, and carbon oxides. Contact with heavy metals, their compounds and alloys the product decomposes with evolution of oxygen.

### 5.3. Advice for firefighters

Protective equipment for fire-fighters.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapor's or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

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 dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services. Dike spilled material or otherwise contain material to ensure runoff does not reach waterway.

Dangerous Goods – Initial Emergency Response Guide No: 14

## 7. HANDLING AND STORAGE

**Handling:** Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of dust.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Mixing this product with acid or ammonia releases chlorine gas. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full personal protective equipment (PPE).

Do not store near acids. Keep out of reach of children. Store in suitable labeled containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
sodium hypochlorite	7681-52-9	STEL	2 mg/m <sup>3</sup>	AIHA WEEL
chlorine	7782-50-5	TWA	0.1 ppm	ACGIH
		STEL	0.4 ppm	ACGIH
		Ceiling	0.5 ppm 1.45 mg/m <sup>3</sup>	NIOSH REL
		C	1 ppm	OSHA Z1
			3 mg/m <sup>3</sup>	
sodium hypochlorite	7681-52-9	STEL	2 mg/m <sup>3</sup>	AIHA WEEL

**Engineering measures** : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

**Personal protective equipment**

**Eye protection** : No special protective equipment required.

**Hand protection** : No special protective equipment required.

**Skin protection** : No special protective equipment required.

**Respiratory protection** : No personal respiratory protective equipment normally required.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling.

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Flash point	:	Not applicable, Does not sustain combustion.
Odor Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	100 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	1.00 - 1.028
Water solubility	:	soluble
Solubility in other solvents	:	No data available
Partition coefficient: noctanol/water	:	No data available
Autoignition temperature	:	No data available
Thermal decomposition	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	yes
Molecular weight	:	No data available
VOC	:	No data available

**SECTION 10. STABILITY AND REACTIVITY**

**Possibility of hazardous reactions**

: No dangerous reaction known under conditions of normal use.

**Conditions to avoid**

: Stable under normal conditions.

: Mixing this product with acid or ammonia releases chlorine gas.

**Incompatible materials**

: None known.

: Acids

**Organic materials**

: Decomposition products may include the following materials:

Carbon oxides

Hydrogen chloride gas

Amide

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation, Eye contact, Skin contact exposure

**Potential Health Effects**

Eyes	: Causes eye irritation.
Skin	: May cause allergic skin reaction.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.
Experience with human exposure	
Eye contact : Redness, Irritation	
Skin contact	: Redness, Irritation, Allergic reactions
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.
Toxicity	: No data available
Product	
Acute oral toxicity	
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: No data available
Skin corrosion/irritation	: No data available
Serious eye damage/eye irritation	: Mild eye irritation
Carcinogenicity	: No data available
Reproductive effects	: No data available
Germ cell mutagenicity	: No data available
Teratogenicity	: No data available
STOT-single exposure	: No data available

STOT-repeated exposure  
 Aspiration toxicity : No data available  
 Components : sodium hypochlorite LD50 Rat: 5,230 mg/kg  
 Acute oral toxicity  
 Components : sodium hypochlorite  
 Acute dermal toxicity :LD50 Rabbit: > 10,000 mg/kg

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Environmental Effects : Toxic to aquatic life.  
 Very toxic to aquatic life.

Product  
 Toxicity to fish  
 Toxicity to daphnia and other aquatic invertebrates : No data available  
 Toxicity to algae : No data available  
 Components : sodium hypochlorite 96 h EC50: 0.14 mg/l  
 Toxicity to fish :  
 Components : sodium hypochlorite 48 h EC50: 0.071 mg/l  
 Toxicity to daphnia and other aquatic invertebrates

Persistence and degradability  
 Not applicable - inorganic

Bio accumulative potential  
 No data available

Mobility in soil  
 No data available

Other adverse effects  
 No data available



**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

: Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

**Disposal considerations**

: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and federal regulations.

**SECTION 14. TRANSPORT INFORMATION**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land transport (DOT)**  
Not dangerous goods

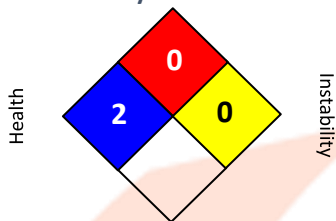
**Sea transport (IMDG/IMO)**

**SECTION 15. REGULATORY INFORMATION**

**Extremely Hazardous Substances Reportable Quantity** This material does not contain any components with a section 304 EHS RQ.

SECTION 16. OTHER INFORMATION

NFPA: HMIS III:  
Flammability



0 = not significant, 1 = Slight,  
Special hazard. 2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

HEALTH	2*
FLAMMABILITY	0
PHYSICAL HAZARD	0

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Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.