

MATERIAL SAFETY DATA SHEET

Columbus Bleach 3.5 & 5%

A concentrated sanitizer, disinfectant and bleaching agent



SANS 1853

Act No: ACT5GNR529/2400549/072/0436

COMPANY DETAILS

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1. PRODUCT NAME:

Trade Name: Columbus Bleach 3.5 & 5%
Product Code: BL3, BL5
Synonyms: Bleach

2. COMPOSITION:

Hazardous Components in concentrate form:
Sodium Hypochlorite CAS# 7681-52-9 < 5%
Hazardous Components in diluted form: If used in accordance to manufacturer's instructions its not hazardous
EEC Classification: N/A
R Phrases: R36 / 37 / 38

3. HAZARDS IDENTIFICATION:

Main Hazard: Corrosive, Oxidising agent and poisonous gas production
Flammability: Non flammable
Chemical Hazard: High pH irritant
Biological Hazard: Some ingredients are not biodegradable
Reproduction Hazard: Nil

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Eye effect:	Eyes:	Irritant
Health effect:	Skin:	Severe irritant to skin in concentrated form
Health effect:	Ingestion:	Nausea do not induce vomiting, high pH might cause mucus membrane damage.
Health effect:	Inhalation:	Irritation of nose and throat.

4. FIRST AID MEASURES:

Ingestion:	DO NOT INDUCE VOMITING. Drink large quantities of water. NOTE TO PHYSICIAN: Probable mucosal damage from oral exposure of large quantity of ingestion of undiluted Bleach may contraindicate the use of gastric pump.
Eyes:	Immediately flush eyes with water and continue washing for at least 2 minutes. Seek medical attention because of high pH.
Skin:	Wash with plenty of water if irritation persists. Seek medical attention because of high pH.
Inhalation:	Normally none required, however if needed remove to fresh air.

Medical Conditions Generally Aggravated by Overexposure: See above.

5. FIRE FIGHTING MEASURES:

Flash Point (Test Method):	None (Tag Closed Cup ASTM D 56)
Special Fire Fighting Procedures:	Self-Contained Breathing Apparatus (SCBA) and protective clothing should be worn when fighting chemical fires.
Unusual Fire and Explosion Hazards:	None known
Extinguishing Media:	Carbon dioxide, foam, dry chemical.

6. ACCIDENTAL RELEASE MEASURES:

Put on protective clothing: Goggles and Gloves.

- Steps to be taken if material is released or spilled: wear suitable protective equipment, including gloves. For small spills of 5 liters or less, gather up a bucket of water and a sponge or mop. Mop or sponge the water into the spill until thoroughly combined. Wipe or mop up resulting spill area a final wipe or mop with fresh water. Re-rinse all equipment, and allow spill area to dry. For large spills of more than 5 liters, remove people from immediate spill area as it will be very slippery, and isolate until cleaned up. Contain spill with absorbent material, i.e. towels. With a sponge type mop pick up as much of the spillage as possible. Discard the waste containers into a bin according to your facility's waste disposal guidelines or wash the area down with plenty of water to drain or sewer using a hose pipe. Then Mop the spill area with fresh water. Rinse out all equipment (bucket, mop, and towel) with large amount of water. If paper towels were used, dispose of in a tightly closed trash bag. Let spill area dry before allowing people traffic to ensure no one can slip on the floor.
- Waste disposal method: Disposal of Bleach 5% may be accomplished by pouring solution down the drain in accordance with state and local regulations. Flush with a large quantity of water. Rinse thoroughly with water and dispose of the container in the trash bin.
- Precautions to be taken in handling and storing: Bleach 5% should be stored in its original sealed container at room temperature (15°C to 30°C).
- Precautionary labeling: Avoid eye contact with the undiluted product because of high pH. Can damage eyes.

7. HANDLING AND STORAGE:

Control Measures in a Production Environment

- Eye Protection: Safety glasses for handling of solutions greater than 3% Bleach. An eyewash should be available for emergency situations.
- Ventilation: none required, however ensure that there is plenty of fresh air coming into the production area.
- Skin Protection: Gloves should be worn when working with the Bleach 5% concentrations. Rubber boots or industrial shoes may be needed to contain large spillages.
- Respiratory Protection: None required

Control Measures by end user

Whilst handling concentrate wear goggles and gloves.

Suitable material: Plastic containers and caps.

Do Not Re-Use Containers. Do Not Store in Direct Sunlight. Do Not Mix With Other Substances.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:

Personal protection - respiratory:	Facemasks should be worn when handling large quantities.
Personal protection - hand:	PVC gloves are recommended.
Personal protection - eye:	Safety spectacles must be worn.
Personal protection - skin:	Aprons or full-length clothing should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear yellow tinted aqueous solution.
Odour:	Strong chlorine odour.
pH:	11-12
Boiling point:	About 100°C.
Melting point:	N/A
Flash point:	N/A
Flammability:	Non-Flammable
Auto flammability:	Nil
Explosive properties:	None
Oxidising properties:	Yes - strong

10. STABILITY AND REACTIVE

On storage there is a natural decrease of concentration due to hydrolysis. This process is accelerated by sunlight, heat and minute quantities of metallic ions: nickel, copper, tin, manganese and iron.

The product is a strong oxidizing agent – bleaches and stacks most fabrics and organic matter. It reacts with acids to evolve toxic chlorine gas. It is a powerful sterilizing agent.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not toxic.
Skin and eye contact:	Eye and Skin Irritant
Chronic Toxicity:	Nil
Carcinogenicity:	Nil
Mutagenicity:	Nil
Reproduction Hazard:	Nil

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12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	Fish:	Assumed non toxic
Aquatic Toxicity:	Daphnia:	Assumed non toxic
Aquatic Toxicity:	Algae:	Assumed non toxic
Biodegradability:		Moderately
Bio-accumulations:		Nil
Mobility:		Not studied

Concentrate toxic to water and waste disposal systems. NB. Always dilute

13. DISPOSAL CONSIDERATIONS

Under normal circumstances, disposal of used product has virtually no impact on the environment.

Disposal methods:	For product rinse away with plenty of water
Disposal of packaging:	Disposal in accordance with local regulations

14. TRANSPORT INFORMATION

Proper Shipping Name:	Sodium Hypochlorite		
DOT (ground):	Not regulated	IMO (ocean):	Not regulated
IATA (air):	Not regulated	Labels:	Corrosive
Hazard Class:	III	Special Instructions:	None
ID#:	None	Reportable Quantity:	None

TRANSPORTATION
No special requirements.

15. REGULATORY INFORMATION

EEC hazard classification:	N/A
Risk Phases:	R 36 / 37 / 38
Safety Phases:	S 2 / 3 / 13 / 26
National Legislation:	N/A

16. OTHER INFORMATION

Disclaimer

The information contained herein is based on the present state of information and knowledge available. The information provided are guidelines and recommendations and DOES NOT constitute any guarantee or warranty. Columbus Cleaning Solutions (Pty) Ltd does not accept any liability of any kind for any loss including, without limitations, consequential loss, injury or damage arising from the use of its products and or information contained herein.

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