

MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the Company and the Substance/Mixture

Product Name: Bleach 3%

Product Description: Clear to slightly hazy liquid with characteristic odour

Identified Uses: For use in domestic and professional cleaning.

Company Identification: Parrot Products (Pty) Ltd
22 Cleveland Road, Cleveland, Johannesburg, RSA
Tel: +27 (0)11 607 7627
Emergency telephone number: 0106077600

SECTION 2: Hazards Identification

GSH LABEL ELEMENTS

Hazard pictogram



Signal word: Danger
Pictograms: GHS05, GHS07, GHS09

Hazard Statements:

Section	Hazard Class	Category	Hazard Class & Cat	Hazard Statement
2.16	Substance of mixture corrosive to metals	1	Met Corr. 1	H290
3.10	Acute toxicity oral	4	Acute Tox 4	H302
3.2	Skin corrosion/irritation	1B	Skin Corr 1B	H314
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
4.1A	Hazardous to the aquatic Environment -acute hazard	1	Aquatic Acute 1	H400

H290	May be corrosive to metals
H301	Contact with acids liberates toxic gas
H302	Harmful if swallowed
H314	Causes severe burns and eye damage
H400	Very toxic to aquatic life

Precautionary Statements:

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P273	Avoid release into the environment
P280	Wear protective gloves/clothing/eye protection/face protection
P301+P330+P331	If SWALLOWED: rinse mouth. Do not induced vomiting
P303+P361+P353	IF ON SKIN (or hair). Take off immediately all contaminated clothing. Rinse skin with water or shower
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE/doctor
P390	Absorb spillage to prevent material damage
P391	Collect spillage
P501	Dispose of contents/container to industrial combustion plant

Other Hazards:

This mixture does not contain any substances that are assessed to be A PBT or vPvB

SECTION 3: COMPOSTIO /INFORMATION ON INGREDIENTS

Substance	IUPAC name	CAS No.	Percentage (m/m)
Sodium Hypochlorite	Sodium Hypochlorite	7681-52-9	2.0-7.0
Water (Aqua)	Oxidane	7732-14-5	99.0-93.0

SECTION 4: FIRST AID MEASURES

Inhalation	Seek medical advice. Remove the victim to fresh air and place in a comfortable position for breathing. If fumes are still present, wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious place in the recovery position. Maintain an open airway. Loosen tight clothing. Get medical attention immediately.
Skin Contact	Seek medical advice. Flush contaminated skin

	with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing and shoes before reusing
Eye Contact	Seek medical advice. Immediately flush the eyes with plenty of water, occasionally lifting the upper and lower eye lids. Check for and remove any contact lenses, if easy and safe to do so. Chemical burns must be treated promptly by a physician.
Ingestion	Seek medical advice. Wash the mouth with water. Remove dentures if any. If the material has been swallowed and the person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious place in the recovery position and get medical attention immediately. Maintain and open airway and loosen tight clothing

Most Acute Symptoms/Effects, Acute and Delayed

Eye Contact	Symptoms and effects are not known to date
Inhalation	Symptoms and effects are not known to date
Skin Contact	Symptoms and effects are not known to date
Ingestion	Symptoms and effects are not known to date

Over-Exposure Signs/Symptoms

Eye Contact	Symptoms and effects not known to date
Inhalation	Symptoms and effects not known to date
Skin Contact	Symptoms and effects not known to date
Ingestion	Symptoms and effects not known to date

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary

None known. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media	Water spray, alcohol resistant foam, BC powder, carbon dioxide (CO ₂)
Unsuitable Media	Water jet
Specific Hazards	Substance or mixtures corrosive to metals
Hazardous Thermal Decomposition Products	No specific data
Special Protective Actions	Promptly isolate the scene by removing all the people from the vicinity. No action shall be

	taken involving personal risk or without suitable training
Special Protective Equipment for Fire-Fighters	Wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in the positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel	No action shall be taken involving personal risk and without training. Evacuate the surrounding areas. Prevent unnecessary and unprotected people from entering. Do not touch or walk through spilled material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate protective equipment
For Emergency Responders	Wear appropriate protective equipment and SCBA
Environmental Precautions	Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains, or sewers. Inform the relevant authorities if the product caused environmental damage

Methods and Materials for Containment and Cleaning Up

Small Spill	Contain spill and remove containers from the area. Use adsorbent materials (cloth, fleece). Dispose via a licensed waste contractor
Large Spill	Stop the spill if without risk. Move containers from the spill area. Approach the spill release from up-wind. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain spillage with non-combustible absorbent material e.g. sand, earth, vermiculite or diatomaceous earth. Collect up material in a suitable container and dispose via a licensed waste disposal contractor.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Protective Measures	Wear appropriate personal protective equipment (PPE). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material represents a respiratory hazard, make sure there is adequate ventilation or wear appropriate respiratory protection. Keep in the original container or an approved container made of compatible material, kept closed when not in use. Do not re-use containers, they may retain product residue
Advise on General Occupational Health	Eating, drinking, and smoking are prohibited in areas where this material is handled, stored, and processed. Workers should wash their hands and face before eating, drinking, and smoking. Remove contaminated clothing and PPE before entering eating areas.
Conditions for Storage	Store in accordance with local regulations. Store in a corrosion resistant container with a resistant inner liner. Store in original container protected from direct sunlight in a cool, dry, well-ventilated away from incompatible materials. Store in a secure area. Keep the container closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

STEL: Short Term Exposure Limit, a limit value above which exposure should not occur (unless otherwise specified)

TWA: Time-weighted average (long term exposure limit); measured or calculated in relation to a reference period of 8 hours' time-weighted average unless otherwise specified.

Occupational Exposure Limits

End Point	Threshold Level	Protection goal, route of exposure	Used in	Exposure time
DNEL	1.55 mg/m ³	Human, inhalation	Worker (industry)	Chronic-systemic effects
DNEL	3.1 mg/m ³	Human, inhalation	Worker (industry)	Acute-systemic effects
DNEL	1.55 mg/m ³	Human, inhalation	Worker (industry)	Chronic- local effects
DNEL	3.1 mg/m ³	Human, inhalation	Worker (industry)	Acute – local effects

Appropriate Engineering Controls	If user operations generate dust, fumes, vapour, or mist, use process enclosures, local exhaust ventilation or other environmental controls
Environmental Exposure Controls	Emissions from work ventilation or work process equipment should be checked to ensure that they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications of the process equipment will be necessary.
Individual Protection Measures	<p>Respiratory Protection: Based on the hazard and potential for exposure, use a suitable respirator that meets the standard or certification. Respirators must be used according to respiratory protection programs to ensure proper fitting, training, and other aspects of use.</p> <p>Hand Protection: Wear chemical-resistant gloves when handling chemical products if a risk assessment indicates that this is necessary. Check during use that gloves retain their properties</p> <p>Eye/Face Protection: Wear eye-safety wear that complies with an approved standard. If a risk assessment indicates that a higher degree of protection is required, wear splash goggles.</p> <p>Skin and Body Protection: Wear suitable protective clothing</p> <p>Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking or using the bathroom. Wash contaminated clothing before reusing. Ensure eye-wash stations and safety showers are close to the work location.</p>

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Colourless to pale yellow
Odour	Characteristic
pH undiluted	12-13 (20°C)
Melting Point/Freezing Point	-28.9 at 1,013 hPa
Initial Boiling Point and Boiling Range	98°C
Flash Point	>110°C at 101.3 kPa
Evaporation Rate	Not determined
Flammability (solid, gas)	NA Liquid
Explosive limits	Not determined
Vapour Pressure	Not determined
Density	1.050 g/cm ³ at 20°C

Vapour density	Not determined
Water solubility	1,000,000 mg/l at 25°C
Partition coefficient (n octanol/water)	-3.42 (pH 12.5, 20°C)
Auto Ignition temperature	Not determined
Decomposition temperature	>111°C
Dynamic viscosity	2.5 cPs
Explosive limits	Not determined
Oxidising properties	None
Surface tension	82.4 mN/m (20°C)

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Substance is corrosive to metals
Stability	Product is considered to be stable
Conditions to avoid	None known
Incompatible materials	None known
Anticipated hazardous decomposition products	Releases toxic materials with acids

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects:

No animal testing has been carried out for this product. Classifications that have been carried out using ATE figures (Acute Toxicity Estimate) calculation method using LD₅₀ or ATE figures provided by the raw material supplier.

Acute toxicity: Harmful if swallowed

Acute toxicity estimates

Oral	Dermal	Inhalation (gases)	Inhalation (vapours)	Inhalation (dusts & mists)
1,100 mg/kg	NA	NA	NA	NA

Irritation/Corrosion

Skin	Causes severe burns
Eyes	Causes serious eye damage
Respiratory	Non-irritating to the respiratory system

Sensitization:

Skin	Non-sensitizing
-------------	-----------------

Reproductive Cell Mutagenicity	No information available
---------------------------------------	--------------------------

Carcinogenicity	No information available
Reproductive Cell Mutagenicity	No information available
Reproductive Toxicity	No information available
Specific Target Organ Toxicity (Single Exposure)	No information available
Specific Target Organ Toxicity (Repeat Exposure)	No information available
Aspiration Hazard	Not considered to be an aspiration hazard

Potential Acute Health Effects:

Eye contact	Causes serious eye damage
Inhalation	No known effects or hazards
Skin contact	Causes severe burns
Ingestion	Causes severe burns

Symptoms related to physical, chemical and toxicological characteristics

Short term exposure

Potential immediate effects	No known effects or hazards
Potential delayed effects	No known effects

Long term exposure

Potential immediate effects	No known effects or hazards
Potential delayed effects	No known effects or hazards

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Very toxic to aquatic life

Aquatic Toxicity (Acute)			
End Point	Value	Species	Exposure Time
EC50	141 ug/l	Aquatic Invertebrates	48 H
ErC50	0.036 mg/l	Algae	72 H

Persistence/Degradability	No information available
Bio Accumulative Potential	No information available
Mobility in Soil	No information available
Other Adverse Effects	No information available
Results of PBT and VpVB Assessment	No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Method	Dispose in compliance with regulatory requirements and should not be discharged into the environment or sewer system
Container Disposal Method	Dispose in compliance with regulatory

	requirements. Do not recycle contaminated packing.
--	--

SECTION 14: TRANSPORT INFORMATION

This product is considered hazardous for transport.

Shipping by Road or Rail	
UN Number	1791
UN Proper shipping name	Hypochlorite solution
Transport Hazard Class(es)	8 (corrosive substances) (environmentally hazardous)
Packing group	II (substance presenting medium danger)
Environmental hazards	Hazardous to the aquatic environment
Danger label(s)	8, fish and tree
Special provisions	521
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1L
Transport category	2
Tunnel restriction	E
Hazard identification number	80
Emergency Action Code	2X
Special precautions for the user	Provisions for dangerous goods should be adhered to within the premises

Shipping by Sea	
UN Number	1791
Proper shipping name	Hypochlorite solution
Class	8
Marine pollutant	Yes (P) (hazardous to the aquatic environment)
Packing group	II
Danger label(s)	8, fish and tree
Special provisions (SP)	274,900
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-A, S-B
Stowage category	B
Segregation group	8-Hypochlorites

Shipping by Air	
UN Number	1791
Proper shipping name	Hypochlorite solution
Class	8
Environmental hazards	Yes (Hazardous to the aquatic environment)
Danger label(s)	8
Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	0.5 L

SECTION 15: REGULATORY INFORMATION

Directive on Industrial Emmissions VOCs, 2010/75/UE	
VOC Content	0%

Chemical safety assessments for substances in this mixture were not carried out

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

PBT	Persistent, Bioaccumulative, Toxic
VpVb	Very persistent and very bio accumulative
EC50	Effective Concentration 50%. The concentration of a tested substance causing a 50% change in response
CAS	Chemical Abstracts Service
VOC	Volatile Organic Carbon

This product is intended for use as cleaning preparation.

The information contained in this Safety Data Sheet is based on the prevailing knowledge and information at the time of its publication. Information is given as guidance for handling, use, processing, storage, transportation, disposal, and release, and is not to be considered a warranty or quality specification. The information relates to the specific materials designated and is not valid for this material when mixed with any other materials or in any process, unless specified in the text.