

MACJAMES® MSHYP-001 - SODIUM HYPOCHLORITE (15%) PRODUCT TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

FEATURES AND BENEFITS

- *Efficient disinfection*
- *Efficient Sanitization*
- *Efficient bleaching agent*

USES

- *Potable Water disinfection*
- *Wastewater Disinfection*
- *Process water disinfection*
- *Cleaning and sanitization*
- *Use as bleaching agent on dilution*

MACJAMES® MSHYP-001 - SODIUM HYPOCHLORITE (15%) solution (DPR Approval No.: DPR/HSE.04/003.700/2018/037) is a clear light yellow-greenish chlorine-containing liquid. **MACJAMES® MSHYP-001** has a strong disinfecting effect on all clinical strains of bacteria. It has a good bactericidal (Gram-positive and Gram-negative bacteria), sporicidal and fungicidal effect that is achieved in a very short time even at small concentrations dilutions.

It is efficient in water treatment and sanitization.

PACKAGING SIZES: 4 Litres: 20 Litres: 25 Litres: 200 Litres: IBC tanks (1,000 Litre)
(All in UV-stabilized HDPE plastic containers)

USES AND APPLICATION INFORMATION:

MACJAMES® MSHYP-001 - SODIUM HYPOCHLORITE (15%) solution is used in water treatment as a disinfectant; healthcare and public facilities, hospitality and hotels, household and industries as an efficient disinfectant, sanitizer and bleaching agent.

General disinfecting and deodorizing.

A dilution to 0.1% solution may be used to sanitize walls, floors, baths and other hard surfaces. Add the diluted solution and allow it to stand for 5 minutes. Wash and rinse well with clean water.

AREAS OF APPLICATION/USE	CONCENTRATION BY WATER DILUTION
Healthcare facilities	1% - 0.006% solution
Public facilities	0.006% solution
Water disinfection	0.00005% solution
Swimming pool	0.00005% solution
Chlorination of wells and water supply systems	0.00005% - 0.001% solution
Bleaching agent (in fabrics)	0.01% for whitening; and 0.1% for stain removal

MACJAMES® MSHYP-001 - SODIUM HYPOCHLORITE (15%) solution is used diluted with water in various concentrations, depending on type of material, dirt and pathogen contamination level.

DISINFECTION LEVEL	DILUTION RATIO SODIUM HYPOCHLORITE (15%) : WATER
High level	1 : 10
Intermediate High Level	1 : 20
Intermediate level	1 : 50
Low level	1 : 100
Very Low level	1 : 1000

PRECAUTIONS:

- Keep all chemicals away from children.
- Keep away from acids, reducing agents, organics.
- Always store in a cool dry location.
- Avoid direct sunlight.
- Always keep vented drum device closed.
- Avoid skin and eye contact, inhalation or ingestion.
- Use Material Safety Data Sheet (MSDS) for specific details.

PHYSICAL PROPERTIES			
Colour	Clear to Light greenish yellow	State	Liquid
Odour:	Chlorine-like	Vapour Pressure	17.25 mmHg @ 20°C
Specific Gravity @ 20°C :	1.08	Water solubility:	Soluble
Volatility	Not available	Evaporation rate	Not available
pH (1%Solution/water)	Neutral	Vapour Density (Air = 1):	0.62
Freezing Point:	Not Available	Boiling Point:	40°C

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING.

HEALTH	1	0 - Minimal
FLAMMABILITY	0	1 - Slight
REACTIVITY	1	2 - Moderate
PERSONAL PROTECTION	B	3 - High
		4 - Very High

NB: The Material Safety Data Sheet(MSDS) of **MACJAMES® MSHYP-001 - SODIUM HYPOCHLORITE (15%) solution** is readily available for more information or contact us at info@macjamesglobal.com.

TYPICAL PHOTOS OF PACKAGE SIZES OF MACJAMES® MSHYP-001 - SODIUM HYPOCHLORITE



NON-WARRANTY – All data, statements and recommendations contained herein are based upon the best information available and are believed to be reliable. However, no warranty, either expressed or implied, is made concerning the application of this product since the customer’s use cannot be controlled directly by Macjames.



MINISTRY OF PETROLEUM RESOURCES

DEPARTMENT OF PETROLEUM RESOURCES

7 KOFO ABAYOMI STREET, VICTORIA ISLAND, LAGOS

P.M.B. No: 2650

Telephone: 01-2790000

Website: www.dprmigeria.com



Ref: DPR/HSE.04/003.700/2018/037

Date: 22nd November 2018

The Managing Director

Mackjames Global Resources Limited
37 Trans Amadi Industrial Layout
Rumuobiakani, Port Harcourt.

Dear Sir,

RE-APPLICATION FOR CERTIFICATION/APPROVAL OF OILFIELD CHEMICALS

Arising from the review of the products SDS and the affirmation of their non-hazardous as well as non-toxic characteristics to aquatic organisms, we are pleased to convey our approval for the use of the Macjames® MSHYP-001 – Sodium Hypochlorite (10%) product in the Oil and Gas Industry.

3. This approval is for a period of three (3) years in the first instance from the date of this letter and is subject to periodic review by the Department as deemed necessary.

4. The use of this product shall be governed by the provision of section 25 of the petroleum (Drilling and Production) Regulations, 1969 as well as Environmental Guidelines and Standards for the Petroleum Industry in Nigeria (EGASPIN 2002) which were both issued pursuant to section 9(1)(b)(iii) of Petroleum Act, 1969.

5. Furthermore, any change in the composition or reformulation of this product that may wholly or partially alter the properties/ data submitted shall be promptly communicated to the Director of Petroleum Resources for the purpose of re-certification, as such changes automatically render this approval invalid.

6. Finally, this approval notwithstanding, the user of the product shall seek approval the Director of Petroleum Resources for the specific use under specified terms and conditions; and shall remain fully responsible for any damage done to the local environment on account of the use of the product.

Yours faithfully,

A handwritten signature in blue ink, appearing to read 'Abdurrahman'.

Abdurrahman, A.S

For: Director of Petroleum Resources