



MATERIAL SAFETY DATA SHEET

Updated February 2019 by Macjames Global Resources Limited, Plot 10 Divine Avenue, Sunlight Estate, Umuebullu II, Etche LGA, Rivers State, Nigeria.

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Macjames® MRWL-07 - Rig Wash Liquid
OTHER NAME: Industrial Detergent
MANUFACTURER: Macjames Global Resources Limited, Port Harcourt, Rivers State, Nigeria.
DPR APPROVAL NO.: DPR/HSE.04/003.700/2019/004
TELEPHONE: +234 818 959 6273

PACKAGING AND NUMBER CODES: 4Ltr - MRWL-07A: 20Ltr - MRWL-07B: 25Ltr - MRWL-07C:
30Ltr - MRWL-07D: 200Ltr - MRWL-07E.

SECTION 2: MAJOR INGREDIENTS

INGREDIENTS		% COMPOSITION (Wt) (APPROX.)
De-ionized water	-	70.50
Anionic Surfactants	-	19.45
Proprietary Blend	-	9.80
Citric Acid	-	0.13
Methyl Paraben (preservative)	-	0.12
Total % Composition (Wt)	-	100.00

SECTION 3: HAZARDS IDENTIFICATION

This product is an alkaline liquid. Avoid contact with strong acids. Do not store in metal containers.

EYES: May irritate eyes.
SKIN: May irritate skin.
INHALATION: May irritate nasal passages, respiratory tract and mucous membranes.
INGESTION: May cause gastrointestinal disturbances.

SECTION 4: FIRST AID MEASURES

EYES: If exposed, flush with water for 15 minutes and get medical attention.
SKIN: Wash with plenty of water. Seek medical attention if irritation persists.
INHALATION: Get fresh air if exposed and seek medical attention if condition does not improve.
INGESTION: If ingested, drink water and seek immediate medical attention. Never give anything by mouth to an unconscious person.



SECTION 5: FIRE FIGHTING METHODS

Macjames® MRWL-07 is a non-combustible liquid; Fire fighters should wear self contained breathing apparatus with full face masks. Use dry chemical, foam, carbon dioxide or water spray for fires involving this product.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Absorb and collect product and containerize for reuse. For product that cannot be reused and must be disposed of, appropriate disposal methods should be followed. Dilute or flush with plenty water or Management and disposal should follow State Federal guidelines for release reporting.

SECTION 7: HANDLING AND STORAGE

Macjames® MRWL-07 can irritate eyes and skin and handling procedures should avoid direct skin or eye contact. Wear appropriate hand gloves and PPE. The product should be stored in the original containers in a cool and dry location. Keep from freezing.

SECTION 8: EXPOSURE CONTROLS, PERSONNEL PROTECTION

Use protective gloves when handling **Macjames® MRWL-07** or when any contact with the product is possible. Protective goggles or a face shield should be worn when mixing or pouring product to avoid any eye or face contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Macjames® MRWL-07 is a non-combustible, non-toxic, slight viscous liquid

Colour: light cream to colourless

FLASH POINT: None

WATER SOLUABILITY: Completely Soluble

pH: 8.0 - 10

SPECIFIC GRAVITY: 1.02

SECTION 10: STABILITY AND REACTIVITY

Macjames® MRWL-07 is an alkaline, stable water based liquid. However, as with any cleaning product, mixtures with other products should be avoided. Avoid contact with strong acids, and do not store in metallic containers.

SECTION 11 : TOXICOLOGICAL AND ECOLOGICAL INFORMATION

Macjames® MRWL-07 is not known to be a carcinogen or toxic. Overexposure to this product may produce the conditions listed in Section 3. Releases may be reportable under local and state regulations. This product may affect aquatic plants and fish. It should be properly diluted with water before being released into the environment.



SECTION 12: TRANSPORTATION AND DISPOSAL INFORMATION I

Macjames® MRWL-07 is a Non-Combustible Liquid. Should be transport in a non-metallic container. Should be properly diluted with water before disposal or disposal should be conducted in accordance with local and Federal Environmental guidelines.

SECTION 13: REGULATORY INFORMATION

Chemical components of this product are human and environmentally friendly at the proportions.

SECTION 14: OTHER INFORMATION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING:

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

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Macjames Global Resources Limited to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations. This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Macjames Global Resources Limited assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

MINISTRY OF PETROLEUM RESOURCES

DEPARTMENT OF PETROLEUM RESOURCES

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R/DPR/HSE.04/003.700/2019/004

Date: 29th January 2019

The Managing Director
Macjames Global Resources Limited
37 Trans Amadi Industrial Layout
Rumuobiakani
Port Harcourt

Dear Sir,

RE-APPLICATION FOR REVALIDATION OF OILFIELD CHEMICALS

Arising from the review of your application for re-certification of Rig Wash Liquid (Macjames MRWL-07), we are pleased to inform you of the acceptance of the product technical data including the safety Data Sheet (SDS) submitted on the chemical and the product manufacturer's attestation that the formulation remains the same; and also, convey our approval for the continued deployment of the product in the Oil and Gas Industry.

2. This re-certification 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.
3. The use of Macjames MRWL-07 shall be governed by the provisions 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 2018) which were both issued pursuant to section 9(1)(b)(iii) of Petroleum Act, 1969.
4. Furthermore, any change in the composition or reformulation of this product which could wholly or partly alter the data submitted should be promptly communicated to the Director of Petroleum Resources for the purpose of re-certification, as such changes automatically render this approval invalid.

5. Finally, this approval notwithstanding, the user of the product shall seek the approval of Director Department 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 black ink, appearing to read 'Balogun, A. A.', written in a cursive style.

Balogun, A. A.

For: Director of Petroleum Resources