

MATERIAL SAFETY DATA SHEET

UPDATED OCTOBER 2022 BY MACJAMES GLOBAL RESOURCES LIMITED, NO. 10 MBAMARA STREET, UMUEBULU II, ETCHE LGA, RIVERS STATE, NIGERIA.

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: MACJAMES® MMDC-11 - Multisurface Degreaser/Cleaner

OTHER NAMES: Water-based Degreaser, Concentrated Degreaser, Oil Cleaner, Biodegradable Degreaser

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ISO 9001:2015 Cert. No.: **N1683535**

NAFDAC REG. NO.: **02-8179L**

DPR APPROVAL NO.: **NUPRC/HQ/HSE.3/03/24/229**

PACKAGING SIZES: 12 x 1 Litre : 4 x 4 Litres : 20 Litres : 25 Litres : 200 Litres : IBC tank (1,000 Litres), others on request.

SECTION 2: MAJOR INGREDIENTS

INGREDIENTS	% COMPOSITION (Wt) (APPROX.)	
De-ionized water	-	69.55
Anionic Surfactants	-	15.07
Nonionic Surfactants	-	8.14
Proprietary blend	-	7.02
Preservative	-	0.14
Lemon Green Colour	-	0.08
Total % Composition (Wt)	-	100.00

Note: It contains LABSA, Sodium Sulphate, among surfactants that are biodegradable

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®MMDC-11 - Multisurface Degreaser/Cleaner 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®MMDC-11 - Multisurface Degreaser/Cleaner 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®MMDC-11 - Multisurface Degreaser/Cleaner** 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®MMDC-11 - Multisurface Degreaser/Cleaner is a non-combustible, non-toxic, viscous liquid mixture.

State	Liquid
Appearance	Light lemon to colourless
Odour	Industrial detergent or fruit fragrance
pH	8.5 - 10
Viscosity	3.1p
Specific Gravity (H ₂ O = 1)	1.02
Boiling Point	>105°C
Water Solubility	Completely soluble in water.

Volatility	Not volatile (contains no VOCs)
Evaporation Rate (H₂O = 1)	≥1
Freezing Point	Below -5°C.
Odour Threshold	No data
Flash Point	None anticipated (water based)
Autoignition temp:	Not applicable - does not burn.

SECTION 10: STABILITY AND REACTIVITY

MACJAMES[®]MMDC-11 - Multisurface Degreaser/Cleaner 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[®]MMDC-11 - Multisurface Degreaser/Cleaner 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

MACJAMES[®]MMDC-11 - Multisurface Degreaser/Cleaner 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 their 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

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