

MATERIAL SAFETY DATA SHEET

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

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **MACJAMES® MHDS-20 - Heavy Duty Degreaser Surfactant**

COMMON NAME: Biodegradable Surfactant/Cleaner

PRODUCT USES: Heavy duty to light Degreasing and Cleaning of crude oil and other organics

MANUFACTURER: Macjames Global Resources Limited, Port Harcourt, Rivers State, Nigeria.

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

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PACKAGING SIZES: 20 Litres : 25 Litres : 200 Litres: 1,000 Litres (IBC), in HDPE stabilized plastic containers (others on request)

SECTION 2: MAJOR INGREDIENTS

INGREDIENTS	%	% COMPOSITION (Wt) (APPROX.)
De-ionized Water	-	50.00
Linear Hydrocarbon	-	20.00
Proprietary Blend (Water Soluble)	-	20.00
Linear Alkylbenzene sulphonate	-	10.00
Total % Composition (Wt)	-	<u>100.00</u>

SECTION 3: HAZARDS IDENTIFICATION

This product can cause irritant dermatitis as a result of prolonged exposure or contact. It may affect the aquatic environment at 100% concentration. Dilute to infinity with water before discharging to the environment.

EYES: Highly irritates the eyes.

SKIN: Highly irritates the skin.

INHALATION: Inhalation of high vapour concentrations may cause symptoms such as mild irritation, headache, dizziness, fatigue, and nausea

INGESTION: May cause nausea if swallowed

SECTION 4: FIRST AID MEASURES

Seek medical attention if any signs of unconsciousness or discomfort develop. Show this safety data sheet to the physician present.

- EYES:** If it comes in contact with the eyes, flush with large amounts of clean running water (open eyelids) for at least 15 minutes. If eye irritation persists, consult a specialist.
- SKIN:** Wash skin thoroughly with running water for several minutes. Get medical attention if irritation persists after washing. Remove contaminated clothing immediately. Wash contaminated clothing before reuse.
- INHALATION:** In case of accidental inhalation of vapour from decomposition of products, move to fresh air. Get medical advice if discomfort develops.
- INGESTION:** DO NOT INDUCE VOMITING! Get medical advice immediately.
If vomiting occurs, keep the head low to prevent obstruction of airways.
Drink a little glass of water or milk. Too much water increases the danger of vomiting, which makes the situation worse.

SECTION 5: FIRE FIGHTING METHODS

MACJAMES® MHDS-20 is a highly flammable liquid. Fire fighters are expected to wear self-contained breathing apparatus or supplied-air respirator in confined spaces. Dry chemical and carbon dioxide (CO₂) can be used to fight inflammation. Do not use strong water jet for extinguishing - may cause spattering of burning material.

Vapours are heavier than air and may travel along the ground for considerable distances to ignition sources.

Containers close to fire should be removed immediately or cooled with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Collect product and containerize for reuse if spill in good volume. For product that cannot be reused and must be disposed of, appropriate disposal methods should be followed. Dilute with water to infinity before disposing according to local regulations. Management and disposal should follow State Federal guidelines for release reporting.

SECTION 7: HANDLING AND STORAGE

MACJAMES® MHDS-20 is highly irritable to eyes, skin, mouth and nasals. Therefore, handling procedures should avoid direct skin, eye, and nasal contact. Wear appropriate hand gloves, full face shield and breathing apparatus and

other PPE. The product should be stored in the original containers in a cool and dry location with good ventilation or air in-and-out expulsion. Keep away from freezing conditions or very high temperatures.

SECTION 8: EXPOSURE CONTROLS, PERSONNEL PROTECTION

Wear appropriate hand gloves, full face shield and breathing apparatus and other PPE when any contact with the product is possible. Protective goggles, gloves, full face shield and breathing apparatus and other PPE should be worn when mixing or pouring product to avoid any eye, skin or face contact and inhalation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

MACJAMES® MHDS-20 contains volatile liquid and Surfactants in water.

State:	Liquid
Appearance/Colour:	Milky or lemon colour.
Odour :	characteristic solvent surfactant
pH @ 25°C:	10 - 12
Specific Gravity (H₂O = 1):	0.95
Boiling Point:	105 - 200°C
Water Solubility:	Soluble
Lower Explosion limit:	0.6%
Flash Point:	95°C
Detergency:	Light foaming

SECTION 10: STABILITY AND REACTIVITY

MACJAMES® MHDS-20 is a solvent/water based foaming liquid degreaser. It is soluble in water. It is stable under normal conditions. Contains volatile solvent. No decomposition if stored and used as directed. May produce vapour if container is heated or stored in very high temperature for a long time.

SECTION 11 : MEDICAL INFORMATION

Overexposure to vapour inhalation can cause nausea and affecting the lungs and stomach. The product has moderate acute toxicity.

SECTION 12 : TOXICOLOGICAL AND ECOLOGICAL INFORMATION

MACJAMES® MHDS-20 Overexposure to this product may produce the conditions listed in Section 3. It is not known to cause cancer or any other similar disease. Releases may be reportable under local and state regulations. This product may affect aquatic plants and fish if discharged at 100% concentration. Dilute to infinity with water before discharging to the environment.

SECTION 13: TRANSPORTATION AND DISPOSAL INFORMATION

MACJAMES® MHDS-20 contains volatile compounds and surfactants and should be transported in original containers and not pressurized or at very high temperature, above 40°C. Disposal should be conducted in accordance with local and Federal Environmental guidelines.

SECTION 14: REGULATORY INFORMATION

Chemical components of this product are restricted to be used by professionals.

SECTION 15: OTHER INFORMATION

MACJAMES® MHDS-20 is for professional and industrial uses only

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING.

HEALTH	2
FLAMMABILITY	2
REACTIVITY	1
PERSONAL PROTECTION	K

0 - Minimal
1 - Slight
2 - Moderate
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.

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