

MATERIAL SAFETY DATA SHEET

Updated September 2020 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® ToolKleen - Solvent Degreaser

Common name: Organic Solvent Degreaser/Cleaner

Product Uses: Degreasing, de-oiling, Equipment/tools cleaning, painting and greasing hoses flushing, cleaning of lubrication, oiling and electroplating equipment.

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PACKAGING SIZES: 25 Litres : 30 Litres : 200 Litres, in HDPE stabilized plastic containers (others on request)

SECTION 2: MAJOR INGREDIENTS

INGREDIENTS	% COMPOSITION (Wt) (APPROX.)	
Aromatic Hydrocarbons	-	90.00
Ketone	-	5.00
Butyl Alcohol	-	3.00
Ethylbenzene	-	2.00
Total % Composition (Wt)	-	100.00

SECTION 3: HAZARDS IDENTIFICATION

This product is pure organic solvent-based and highly volatile and flammable. It is made up of Volatile Organic Compounds (VOCs) and should be handled accordingly.

EYES: Highly irritates the eyes.

SKIN: Highly irritates the skin.

INHALATION: Highly irritates the nasal passages, respiratory tract and mucous membranes.

INGESTION: Can cause gastrointestinal damage if not treated early enough by a medical professional.

SECTION 4: FIRST AID MEASURES

EYES: If exposed, flush with water for 20 minutes and get immediate medical attention.

SKIN: Wash with plenty of water and apply petroleum jelly. Seek medical attention if irritation persists.

INHALATION: Get fresh air if exposed and seek medical attention if condition does not improve.

INGESTION: If ingested, rinse mouth, **drink** water and **seek** immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING METHODS

MACJAMES® ToolKleen is a highly volatile and flammable liquid; Fire fighters should wear self contained breathing apparatus with full face masks. Use dry chemical, foam and carbon dioxide for fires involving this product. DO NOT USE WATER SPRAY.

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. Mix with plenty detergents before disposing according to local regulations. Management and disposal should follow State Federal guidelines for release reporting.

SECTION 7: HANDLING AND STORAGE

MACJAMES® ToolKleen is highly irritate eyes, skin 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.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

MACJAMES® ToolKleen is a volatile and flammable liquid.

State:	Liquid
Appearance/Colour:	Clear Liquid
Odour :	Hydrocarbon characteristics
pH:	No data
Specific Gravity (H₂O = 1):	0.90
Boiling Point:	<40°C
Water Solubility:	Not Soluble.
Volatility:	100% Very Volatile (VOCs)
Lower Explosion limit:	1.3%
Odour Threshold:	No data
Flash Point:	5°C (Open cup or container)
Vapour Pressure:	1.4 kPa
Evaporation rate	103 (Butyl Acetate = 1)

SECTION 10: STABILITY AND REACTIVITY

MACJAMES® ToolKleen is a highly volatile organic liquid/solvent. Avoid contact with any sources of ignition or flame, strong acids and bases or other liquid. It does not mix with water.

SECTION 11 : TOXICOLOGICAL AND ECOLOGICAL INFORMATION

MACJAMES® ToolKleen may cause cancer on 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.

SECTION 12: TRANSPORTATION AND DISPOSAL INFORMATION

MACJAMES® ToolKleen contains VOCs and should be transported in original containers and not pressurized. Disposal should be conducted in accordance with local and Federal Environmental guidelines.

SECTION 13: REGULATORY INFORMATION

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

SECTION 14: OTHER INFORMATION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING.

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

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