

## MATERIAL SAFETY DATA SHEET

Updated September 2020 by Macjames Global Resources Limited. Factory: Plot 10 Divine Avenue, Sunlight Estate, Umuebullu II, Etche LGA, Rivers State, Nigeria.

### SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

**PRODUCT NAME: MACJAMES® MOSL-17 - OXYGEN SCAVENGER LIQUID**

**PRODUCT USE:** Use in removal of oxygen from water used for heating, cooling, drilling, or water floods, surface supply lines, and related equipment/tank associated with seawater and produced water injection systems

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**PACKAGING:** 20 Litres, 25 Litres, 200 Litres and IBC Tank (1000 Litres) in HDPE Containers.

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	% COMPOSITION (Wt) (APPROX.)
De-ionized water	7732-18-5	65
Potassium Bisulphite	7773-03-7	25
Proprietary Blend	-	10
<b>Total % Composition (Wt)</b>	-	<b>100</b>

### SECTION 3: HAZARDOUS IDENTIFICATION

This product is a weak acidic liquid. Avoid contact with strong alkaline.

EYES	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

**General information:**

Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

<b>EYES</b>	Rinse opened eye for several minutes under clean running water
<b>SKIN</b>	Generally the product does not irritate the skin
<b>INHALATION</b>	Supply fresh air; consult doctor in case of complaints
<b>INGESTION</b>	Give large amounts of water. If symptoms persist consult doctor

## SECTION 5: FIRE FIGHTING METHODS

**MACJAMES®MOSL-17 - OXYGEN SCAVENGER LIQUID** is a non-combustible liquid

### Fire and Explosion Hazards:

There is little risk of an explosion from this product if commercial quantities are involved in a fire. This product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products from this product are likely to be harmful if inhaled. Take suitable protective measures.

### Extinguishing Media:

Not combustible. Use extinguishing media suited to burning materials. Water fog or fine spray will control, as will CO<sub>2</sub> and dry chemicals.

### Fire Fighting:

There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is liquid-tight chemical protective clothing and breathing apparatus. Fire fighters should wear self-contained breathing apparatus with full face masks.

### Flammability Class:

Not Flammable and does not burn. 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

### Personal Protection:

It is a good practice to wear impermeable gloves when handling chemical products. Eye protective safety glasses with side shields are recommended. Area isolation is necessary to personnel without protection.

**Environmental precautions:** No special measures required.

### Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste in accordance with the local, State, Provincial, and Federal regulations for your location.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Wear appropriate PPE for chemical handling. Avoid contact or contamination of product with incompatible materials such as strong Bases or Amines.

**Storage:** Preserve integrity of container. The product should be stored in the original containers in a cool and dry location.

## SECTION 8: EXPOSURE CONTROLS/PERSONNEL PROTECTION

Use protective gloves when handling MACJAMES®MOSL-17 - OXYGEN SCAVENGER LIQUID 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.

### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed

Wash hands before breaks and at the end of work

Avoid contact with the eyes and skin

· **Breathing equipment:** Not required.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Clear
ODOUR	Pungent, Sulfurous
SPECIFIC GRAVITY	1.22
DENSITY	83.88 Kg/m <sup>3</sup>
SOLUBILITY IN WATER	Complete
pH (100%)	3.5 - 4.5
VISCOSITY	0.005 Kg/ms
FREEZING POINT	-11 °C
BOILING POINT	96 °C

### SECTION 10: STABILITY AND REACTIVITY

MACJAMES®MOSL-17 - OXYGEN SCAVENGER LIQUID is an acidic liquid and stable water-based stable chemical liquid. However, mixtures with other products should be avoided. Avoid contact with strong bases or amines and do store in original containers.

- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11 : TOXICOLOGICAL AND ECOLOGICAL INFORMATION

MACJAMES®MOSL-17 - OXYGEN SCAVENGER LIQUID 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®MOSL-17 - OXYGEN SCAVENGER LIQUID is a non-combustible acidic Liquid. Should be transported in received containers. Empty used containers should be recycled at approved facility. Should be properly diluted with water before disposal or disposal should be conducted in accordance with local and Federal Environmental guidelines and regulations.

### SECTION 13: REGULATORY INFORMATION

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

**SECTION 14: OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING.**

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

**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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