

# MATERIAL SAFETY DATA SHEET

According to 2001/58/EEC

## 01. PRODUCT AND COMPANY IDENTIFICATION



### Al-Rayes Group

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TCM 430110/01

## SEAL MAX

Manual dish washing detergent & Sanitizer

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## 02. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS	Weight %
Methyl ester sulfonate	93348 - 22 - 2	15 - 25 %
Coconut Di Ethanolamide	68603 - 42 - 9	10 - 15 %
QAC 5 <sup>th</sup> gen	68989 - 01 - 5	0.2 - 0.5 %
Water	7732 - 18 - 5	50.8 - 59.5 %

## 03. HAZARDS IDENTIFICATION

**Not detected the presence of any heavy metals:** Sample preparation as per EPA 3050b Using microwave digestion Detection & Quantification by ICP/MS

**Not detected the presence of free formaldehyde:** (By HPLC method) Detection Limit: 2 ppm

### Presence of Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs)

**Test method:** Sample extraction in solvent followed by analysis, detection and quantification using combined High Performance Liquid Chromatography and Mass Spectrometry (LC/MS). These analyses include nonylphenol ethoxylates and octylphenol ethoxylates from 3 to 15 moles. ( Detection limit : 0.2 mg/kg)

Nonylphenol Ethoxylates (NPEOs) : Not detected

Octylphenol Ethoxylates (OPEOs) : Not detected

## 04. FIRST AID MEASURES

Inhalation	Non hazardous
Eye contact	Wash eyes immediately with large amounts of water. Get medical attention if irritation persists
Ingestion	Rinse mouth thoroughly with water and drink water. Afterwards consult a doctor if necessary.

## 05. FIRE FIGHTING MEASURES

Extinguishing media	Use extinguishing media appropriate to surrounding fire
Specific hazard	Non flammable, it does not present any particular risk on the event of fire.
Boiling point	Above 98°C
Flash point	Above 230°C

## 06. ACCIDENTAL RELEASE MEASURES

**Ventilate area of leak or spill.** Wear appropriate personal protective equipment as specified in Section 8. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not flush to sewer! Remove the spill with mechanical equipment and dispose of in accordance with section 13. Wash non-recoverable remainder with large amounts of water.

## 07. HANDLING AND STORAGE

No potential risk identified on handling

**STORAGE :** Take all necessary measures to avoid accidental discharge of the products into drains and waterways due to the rupture of containers or transfer systems. Stable under normal storage conditions.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ensure good ventilation of the workstation. Emergency equipment: Safety shower, Eye fountain etc.

## 09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
pH	Neutral

## 10. STABILITY AND REACTIVITY DATA

Stable under normal conditions of use. No dangerous reaction known under normal conditions of use.

## 11. TOXICOLOGICAL INFORMATION

**Local effects** : No potential risk identified

**Aquatic Toxicity in Freshwater Fish**

The objective of this acute toxicity study was to assess the toxic characteristics of the submitted sample when exposed to fresh water fish (*Brachydanio rerio*) in a static test system at a concentration level of 101 mg/lit for a period of 96 hours. The test protocol followed the recommendations made in OECD Guidelines for Testing of Chemicals, Section 2, No. 203, on conduct of Fish, Acute Toxicity Test, adopted 17 July 1992.

Groups of 8 fish were exposed to the concentration of 101 mg/lit of test substance and a set of controls also established.

Mortality (if any) of the fish was recorded at 1, 2, 6, 24, 48, 72 and 96 hours after exposure.

**Conclusion:** Under the conditions of the study, MC - 1 did not cause any death of 8 fishes exposed for 96 hours.

The product does not show toxicity at 101 mg/lit.

**Oral Acute Toxicity Test**

**L. D. 50 TEST IN MICE**

**Preparation :** 420 mg of the sample suspended in 10 ml. of sterile distilled water. **Dose :** 42 mg per ml. per mouse orally, seven Albino mice weighing between 18 and 22 grams used for this test. **Dose given :** 2.1 gm/kg

**Conclusion :** No toxic symptoms were observed and none of the tested mice died during 96 hours after the dose. **L. D. 50** obtained is more than 2.1 gm/kg

## 12. ECOLOGICAL INFORMATION

Biodegradable

**Biodegradability :** 92.3% (OECD 302B / ISO 9888) (Medium: Activated sludge from Sewage Plant)

**Test Method :** The test mixture contains inorganic medium and activated sludge.

Biodegradability is determined on the basis of COD measurement at different stages of the test period. Period lasts 28 days.

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with safety regulations. Incinerate at a licensed installation.

## 14. TRANSPORT INFORMATION

Land (ADR/RID)	Not Restricted
Sea (IMO/IMDG)	Not Restricted
Air (ICAO-IATA)	Not Restricted

## 15. REGULATORY INFORMATION

Mandatory labeling (self-classification) of hazardous substances applicable.

Classification/Symbols



R phrases: R36 : Irritating to eyes

S phrases: S26 : In case of contact with eyes, rinse with plenty of Water and seek medical advice

## 16. OTHER INFORMATION

Caution: For manufacturing, processing or repacking by trained persons

*The information contained in this document is true and reliable and is given in good faith based on our current knowledge. The customers may satisfy themselves (by appropriate testing if necessary) that the product is suitable for their purposes and conditions of use and ensure compliance with local legislation. Users are requested to check that they are in possession of the latest version of this document and we are at their disposal to supply any additional information.*