

**MATERIAL SAFETY DATA SHEET (MSDS)**

Date of issue: 05 April 2013

**SECTION 1- IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY**

- Product name:** • Emorbuf468 ORP 468mV Calibration Buffer Solution
- Application:** • ORP (Redox) Calibration Buffer Solution.
- Manufacturer identification:** Pool-i.d. GmbH  
Daimlerstrasse 20  
D-76344 Eggenstein-Leopoldshafen  
Tel.: +49 (0) 721 – 782029-0
- Emergency Telephone n. °:** no hazardous product.

**SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS**

Solution in water  
Potassium chloride < 5.0%

**SECTION 3 - HAZARD IDENTIFICATION**

N/A

**SECTION 4 - FIRST AID MEASURES**

- **After inhalation:** N/A
- **After skin contact:** wash off with thoroughly with soap and water
- **After eye contact:** Irrigate thoroughly with water. If discomfort persists obtain medical attention
- **Ingestion:** wash out mouth thoroughly with water. In severe cases obtain medical attention.

**SECTION 5 – FIRE-FIGHTING MEASURES**

- **Fire extinguisher** N/A
- **Special risks:** N/A
- **Special fire fighting precautions** N/A

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

- **In case of accidental spill or release**

Wear protective clothing.

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with detergent and water.

## **SECTION 7 - HANDLING AND STORAGE**

### **• Handling:**

Under no circumstances eat or drink while handling this material.  
Wash hands and face after working with material

### **• Storage:**

Store at room temperature (@ 15-25°C)  
Protect from direct sunlight and moisture  
Keep container well closed  
Keep away from children

## **SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

### **• Personal protective equipment:**

As appropriate to quantity handled.

### **• Protective gloves:**

Rubber or plastic.

### **• Respiratory protection:**

N/A

### **• Eye protection:**

Goggles or face mask.

## **SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES**

- Appearance :** Clear and colorless liquid
- Odor :** odorless
- Solubility in water :** Miscible in any proportion
- Melting point :** NA
- Boiling point :** > 100 °C

## **SECTION 10 - STABILITY AND REACTIVITY**

### **• Stability:**

Stable

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

### **• In case of ingestion:**

After ingestion of large amounts: nausea, vomiting, cardiac dysrhythmia, cardiovascular failure. However, when handled properly, hazardous effects are unlikely to occur.

### **• Further data:**

LD50 (oral-rat) N/A

NO evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.

## **SECTION 12 - ECOLOGICAL INFORMATION**

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

### **• Waste disposal:**

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Chemical residues are generally classified as special waste and thus covered by local regulations. Contact authorities or disposal companies for advice.

In compliance with current regulations.

## **SECTION 14 - TRANSPORT INFORMATION**

UN-No.: IMDG class: NR

IMO: NR Packaging group:

IATA: NR Packaging group:

Correct technical name: Not-Restricted

ADR/RID: NR

## **SECTION 15 - REGULATORY INFORMATION**

### **Labeling according to EC Directives:**

Symbol: -

R-phrases: -

S-phrases: -

Contains: -

## **SECTION 16 - OTHER INFORMATION**

- **Supersedes edition of :** 05 April 2013
- **Reason for revision :** new issued
- **Legend :** NA Not Applicable  
ND Not Determined

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.