

# MATERIAL SAFETY DATA SHEET

In compliance with EC Regulations No.: 1907/2006, 830/2015 and 1272/2008 (CLP).

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

**Product Name: PICKLING LIQUID** 

Product Code #: 833025 (30 lt)

Product Uses: Industrial applications; Cleaning agent for stainless steel surface areas and equipment.

Date last modified: 19 November 2017

Company:

Marichem Marigases Hellas SA Sfaktirias 64, 185 45 Piraeus,

Greece

Tel. No.: ++30 210 4148800 Fax No.: ++30 210 4133985

e-mail: mail@marichem-marigases.com http://www.marichem-marigases.com

# **Emergency Information:**

Inside U.S. and Canada: (800)-424-9300 (CHEMTREC) Outside U.S. and Canada: 1-703-527-3887 (CHEMTREC) National Emergency Centre (Greece): ++30 210 7793777

## 2. HAZARDS IDENTIFICATION

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Corrosive. Causes severe burns.

Colorless and odorless liquid.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

# **Chemical Composition:**

Ingredients	CAS Number	Proportion	Classification*
Nitric Acid	7697-37-2	5% - 25%	C; R35
Components which do			
not contribute to the	-	75% - 95 %	-
classification of			
the product			

<sup>\*</sup>See section 16 for the full text of the classifications and the R-phrases declared above.

Occupational Exposure Limits, if available, are listed in section 8.

#### 4. FIRST AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once. If breathing has stopped, perform mouth-to-mouth resuscitation. Keep the affected person warm and at rest. Get medical attention as soon as possible.

## **SKIN**

Immediately flush the contaminated skin with water. If this chemical penetrates the clothing, immediately remove the clothing and flush the skin with water. Get medical attention promptly.

#### **EYES**

Immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working with this chemical.

## **INGESTION**

Rinse out mouth and give plenty of water to drink. Seek immediate medical assistance.

# 5. FIRE-FIGHTING MEASURES

#### **EXTINGUISH MEDIA**

Non-combustible, substance itself does not burn but may decompose upon heating. Use dry chemical, CO<sub>2</sub> or water spray do not use alcohol-resistant foam.

## FIRE FIGHTING PROCEDURES

Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks.

### UNUSUAL HAZARDS

The substance decomposes on warming producing nitrogen oxides. The substance reacts violently with combustible and reducing materials, e.g., turpentines, charcoal, alcohol. The substance is an acid; it reacts with bases and is corrosive to metals.

#### HAZARDOUS COMBUSTION PRODUCTS

It may decompose upon heating to produce corrosive and/or toxic fumes. Contact with metals may evolve flammable hydrogen gas.

#### 6. ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

Evacuate the area where concentrated fumes are present. Clean up personnel must wear proper protective equipment (see section 8).

#### ENVIRONMENTAL PRECAUTIONS

Avoid contamination of ground and surface waters. Do not flush to sewer. All spills or leaks of this material must be handled and disposed.

#### METHODS FOR CLEANING UP

Ensure ventilation is adequate. Shut off all sources of ignition. Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Use absorbent (soil, sand, vermiculite or other inert material). Collect and seal in properly labeled drums for disposal.

#### 7. HANDLING AND STORAGE

### **HANDLING**

Do not taste or swallow material. Avoid contact with skin and avoid breathing mist. Do not eat, drink or smoke in work area. Any protective clothing or shoes, which become contaminated, should be removed immediately and thoroughly laundered before reuse.

#### **STORAGE**

Store in a cool place out of direct sunlight. Store in well ventilated area. Store separated from combustible and reducing substances, bases, food and feedstuffs, organic chemicals. Keep in a well-ventilated room.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **EXPOSURE LIMITS**

Name of Substance: Nitric Acid

OSHA Permissible Exposure Level (PEL): 8 hour time-weighted average 2ppm

ACGIH Threshold Limit Value (TLV): short term exposure limit 4ppm

ACGIH Threshold Limit Value (TLV): time-weighted average 2 ppm

#### PERSONAL PROTECTION

**Eye and face protection:** Wear chemical safety goggles, or face shield

**Skin protection:** Wear protective gloves & protective clothing.

**Respiratory protection:** Do not eat or drink in the working area, avoid breathing vapors.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear liquid

Colorless Colorless

Odor: Characteristic odor

**Boiling Point Range:** >100°C

**Melting Point Range:** 0°C

Flash Point: Not Applicable

**Autoignition Temperature:** Not Available

**Lower Explosion Limit (vol %):** Not Available

**Upper Explosion Limit (vol %):** Not Available

Vapour Pressure: Not Available

Relative vapor density (air=1): Not Available

Specific Gravity (gr/cm $^3$ ): 1.18 - 1.23 at  $20^{\circ}$ C

**Bulk Density (kg/m³):** Not Available

**Solubility:** Appreciable

Viscosity: Not Available

**pH value:** 0.90 – 1.30

# 10. STABILITY AND REACTIVITY

## **STABILITY**

The product is stable under normal conditions.

## CONDITIONS TO BE AVOIDED

Avoid heating, high temperatures and open flame. The substance decomposes on warming producing nitrogen oxides.

# MATERIALS TO BE AVOIDED

Avoid reducing materials, e.g., turpentine, charcoal, alcohol. The substance is a strong acid; it reacts violently with bases and is corrosive to metals. Reacts very violently with organic chemicals (e.g., acetone, acetic acid, and acetic anhydride), causing fire and explosion hazard. Attacks some plastics

#### HAZARDOUS DECOMPOSITION PRODUCTS

May give off poisonous oxides of nitrogen & acid fumes when heated in fires (see section 5).

#### 11. TOXICOLOGICAL INFORMATION

## **ACUTE TOXICITY DATA**

Name of Substance: Nitric Acid

Oral human lowest published lethal dose: 430 mg/kg Unreported route man lowest published lethal dose: 110 mg/kg

**Inhalation**: May cause burning sensation, cough and laboured breathing.

**Skin contact:** Corrosive, it causes serious skin burns, pain and yellow discolouration.

**Eye contact:** May cause redness pain and severe deep burns.

**Ingestion:** Corrosive. It causes abdominal pain burning sensation and shock.

#### 12. ECOLOGICAL INFORMATION

## ECOTOXICOLOGICAL DATA

Name of Substance: Nitric Acid

# **Ecotoxicity Values**

LC50 Shore crab 180mg/l 48 hr, Static, aerated water conditions. LC50 Cockle 330-1000 mg/l 48 hr, Aerated water conditions. LC50 Starfish 100-300 mg/l 48 hr, Aerated water conditions.

## **DEGRADATION**

Avoid contaminating waterways. Product is biodegradable.

# **BIOACCUMULATION**

No specific biodegradation test data located.

## 13. DISPOSAL CONSIDERATIONS

# SPILLAGE DISPOSAL

Evacuate danger area! Consult an expert! Collect leaking liquid in sealable containers. Cautiously neutralize remainder with sodium carbonate. Then wash away with plenty of water. Do NOT absorb in saw-dust or other combustible absorbents (extra personal protection: complete protective clothing including self-contained breathing apparatus).

# 14. TRANSPORT INFORMATION

Proper shipping name: Nitric Acid, Solution

# LAND TRANSPORT

UN number: RID-class: 3264 8

ADR class: 8

## **SEA TRANSPORT**

UN number: 3264 EmS: F-A, S-B

IMDG class: IMDG packing group: III

## AIR TRANSPORT

UN number: 3264

Packing group: III IATA/ICAO class: 8

#### 15. REGULATORY INFORMATION

# LABELING ACCORDING TO EC DIRECTIVES

Symbol:  $\mathbf{C}$ 



# Corrosive (C)

R-phrases: R35: Causes severe burns.

S-phrases: S2: Keep out of the reach of children.

> S23: Do not breathe gas/vapors.

S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of

water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice S45:

immediately (show the label where possible).

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

## 16. OTHER INFORMATION

# Full text of R-phrases referred in Section 3

R35: Causes severe burns.

#### Full text of classifications referred in Section 3

C – Corrosive.

# Notice to reader

All information, instructions and statements contained in this Material Safety Data Sheet are compiled in accordance with European Directives, corresponding national legislation and on the basis of information given by our suppliers.

The information disclosed in this Material Safety Data Sheet (which supersedes all previous versions) is believed to be correct, at the date of issue, to the best of our current knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other products or in any processed form, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty or quality specification. It is the responsibility of the recipient of this Material Safety Data Sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

Also, it is the responsibility of the user to comply with local legislation relating to safety, health, environment and waste management. Data and information provided concerning the product are informative, exclusively presented to the customer.