



## **SAFETY DATA SHEET**

In compliance with EC Regulations No.: 1907/2006 and 453/2010.

Date last modified: 03 November 2014 - Version 5.0

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

#### **1.1 Product Identifier**

**Product Name:** **PRELOAD 300**

**Product Code #:** 923004 (30 lts), 922104 (210 lts)

#### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Intended Use:** Industrial applications; Coating for cargo holds.

**Uses advised against:** This product is not recommended for any industrial, professional or consumer use other than the Intended Uses above.

#### **1.3 Details of the supplier of the safety data sheet**

##### **Company/undertaking identification**

##### **Supplier/Manufacturer:**

Marichem Marigases Hellas SA

Sfaktirias 64,

185 45 Piraeus,

Greece

Tel. No.: ++30 210 4148800

Fax No.: ++30 210 4133985

<http://www.marichem-marigases.com>

**e-mail:** mail@marichem-marigases.com

#### **1.4 Emergency telephone number**

Tel. No.: ++30 210 4148800 (including working hours)

##### **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

### 2.1 Classification of the mixture

Classification under EC 1272/2008 regulation - GHS classification.

No need for classification according to GHS criteria for this product.

### 2.2 Label Elements

#### **Labelling according to Regulation (EC) No. 1272/2008.**

The substance is classified and labelled according to the CLP Regulation.

The product does not require a hazard warning label in accordance with GHS criteria.

#### **Product classification and labelling according to Directive 67/548/EEC, European Dangerous Preparations Directive (1999/45/EC), European Regulation 648/2004 and their amendments.**

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

No special labeling information required according to EU directives.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Chemical Composition:

<b>Ingredients</b>	<b>CAS Number</b>	<b>Proportion</b>	<b>Classification*</b>
Preparation based on: (2-Methoxymethylethoxy) propanol	Mixture	5% - 10%	-
Ingredients that do not contribute to the classification of the substance	-	90% - 95%	-

\*See section 16 for the full text of the Hazard Code(s) declared above.

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

## 4. FIRST AID MEASURES

### **4.1. Description of first aid measures**

Remove contaminated clothing.

#### **If inhaled:**

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

**On skin contact:**

Wash thoroughly with soap and water.

**On contact with eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

**On ingestion:**

Rinse mouth immediately and then drink plenty of water, seek medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms: No significant symptoms are expected due to the non-classification of the product.

Hazards: No hazard is expected under intended use and appropriate handling.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treatment: Treat according to symptoms (decontamination, vital functions) - no known specific antidote.

**5. FIRE-FIGHTING MEASURES****5.1. Extinguishing media**

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

**5.2. Special hazards arising from the substance or mixture**

The product is combustible. Cool endangered containers with water-spray.

**5.3. Advice for fire-fighters**

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations. Keep containers cool by spraying with water if exposed to fire. Foam should be applied in large quantities as it is broken down to some extent by the product.

**6. ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Handle in accordance with good industrial hygiene and safety practice.

**6.2. Environmental precautions**

Discharge into the environment must be avoided.

**6.3. Methods and material for containment and cleaning up**

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

**6.4. Reference to other sections**

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Prevent contact with air/oxygen (formation of peroxide).

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

### 7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components with occupational exposure limits:

34590-94-8: (2-Methoxymethylethoxy) propanol  
TWA value 308 mg/m<sup>3</sup> ; 50 ppm (OEL (EU))  
indicative

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

57-55-6: Propane-1,2-diol

#### PNEC

**freshwater:** 19 mg/l

**marine water:** 1.9 mg/l

**intermittent release:** 190 mg/l

**STP:** 4168 mg/l

**sediment (freshwater):** 70.2 mg/kg

**sediment (marine water):** 7.02 mg/kg

**soil:** 2.74 mg/kg

**oral (secondary poisoning):**

No PNEC oral derived, as accumulation in organisms is not to be expected.

#### DNEL

worker:

Long-term exposure- systemic effects, dermal: 65 mg/kg

worker:

Long-term exposure- systemic effects, Inhalation: 310 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, dermal: 15 mg/kg

consumer:

Long-term exposure- systemic effects, Inhalation: 37.2 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, oral: 1.67 mg/kg

## 8.2 Exposure controls

Personal protective equipment

### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

### Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

butyl rubber (butyl) - 0.7 mm coating thickness

Manufacturer's directions for use should be observed because of great diversity of types.

**Supplementary note:** The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### 9.1.1. Appearance

Physical State:	Clear liquid
Color:	Pale
Odor:	Slight ethereal

#### 9.1.2. Basic data

Melting Point Range:	Not determined
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<b>Solubility in water:</b>	Soluble
<b>Flash Point:</b>	Not Applicable
<b>Autoignition Temperature:</b>	Not Available
<b>Lower Explosion Limit (vol %):</b>	Not Applicable
<b>Upper Explosion Limit (vol %):</b>	Not Applicable
<b>Relative vapor density (air=1):</b>	Not available
<b>Specific Gravity:</b>	1.02 gr/cm <sup>3</sup> at 15°C
<b>pH:</b>	6.5 – 7.0
<b>Temperature of loading cargo:</b>	Temperature of loading cargo must not exceed 140°C

## 9.2 Other Information

<b>pKA:</b>	The substance does not dissociate.
<b>Grain size distribution:</b>	The substance / product is marketed or used in a non solid or granular form.

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.  
 Corrosion to metals: No corrosive effect on metal.  
 Formation of flammable gases:  
 Remarks: Forms no flammable gases in the presence of water.

### 10.2. Chemical stability

The product is stable if stored and handled under proper conditions of storage and handling.

### 10.3. Possibility of hazardous reactions

Reacts with strong oxidizing agents.

### 10.4. Conditions to avoid

No special precautions other than good housekeeping of chemicals.

### 10.5. Incompatible materials

Substances to avoid: strong oxidizing agents.

### 10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

**Name of Substance: (2-Methoxymethylethoxy) propanol**

#### Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard.

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg

rat (by inhalation): 7 h (IRT)

No mortality within the stated exposition time as shown in animal studies.

LD50 rabbit (dermal): 13,000 - 14,000 mg/kg

#### Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (BASF-Test)

Serious eye damage/irritation rabbit: non-irritant (Draize test)

#### Respiratory/Skin sensitization

Assessment of sensitization:

The substance did not cause skin sensitization in humans.

#### Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture.

#### Carcinogenicity

Assessment of carcinogenicity:

No data available concerning carcinogenic effects. The chemical structure does not suggest a specific alert for such an effect.

#### Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

#### Specific target organ toxicity (single exposure)

Assessment of STOT single: not applicable.

## **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:

Repeated oral uptake of the substance did not cause substance-related effects. Repeated inhalative uptake of the substance did not cause substance-related effects.

### **Aspiration hazard**

Not applicable.

## **12. ECOLOGICAL INFORMATION**

**Name of Substance: (2-Methoxymethylethoxy) propanol**

### **12.1 Toxicity**

#### **Assessment of aquatic toxicity:**

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

#### **Toxicity to fish:**

LC50 (96 h) > 1,000 mg/l, *Poecilia reticulata* (OECD 203; ISO 7346; 84/449/EEC, C.1, static)

The details of the toxic effect relate to the nominal concentration.

#### **Aquatic invertebrates:**

LC50 (48 h) 1,919 mg/l, *Daphnia magna* (OPP 72-2 (EPA-guideline), static)

Literature data. The details of the toxic effect relate to the nominal concentration.

#### **Aquatic plants:**

EC50 (96 h) > 969 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

Literature data. The statement of the toxic effect relates to the analytically determined concentration.

#### **Microorganisms/Effect on activated sludge:**

EC10 (18 h) 4,168 mg/l, *Pseudomonas putida* (DIN 38412 Part 8, aquatic)

Literature data. The details of the toxic effect relate to the nominal concentration.

#### **Chronic toxicity to fish:**

Study does not need to be conducted.

#### **Chronic toxicity to aquatic invertebrates:**

Study does not need to be conducted.

#### **Assessment of terrestrial toxicity:**

No toxic effects have been observed in studies with terrestrial plants.

#### **Soil living organisms:**

Study does not need to be conducted.

#### **Terrestrial plants:**

EC50 500 g/l, (OECD Guideline 227)

#### **Other terrestrial non-mammals:**

Study does not need to be conducted.

### **12.2 Persistence and degradability**



Assessment biodegradation and elimination (H<sub>2</sub>O):  
Readily biodegradable (according to OECD criteria). Easily eliminated from water.

Elimination information:

96 % DOC reduction (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated sludge, domestic).

94 % DOC reduction (13 d) (OECD Guideline 302 B) (aerobic, activated sludge, industrial)

Assessment of stability in water: Study does not need to be conducted.

### **12.3 Bioaccumulative potential**

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

### **12.4 Mobility in soil**

Assessment transport between environmental compartments: No data available.

### **12.5 Results of PBT and vPvB assessment**

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification.

### **12.6 Other adverse effects**

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### **12.7 Additional information**

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

The product is not harmful to the marine environment as per paragraphs 1.7.4 and 1.7.5. of Resolution MEPC. 219 (63) /Annex 24 - 2012 adoption of IMO's MARPOL Annex V.

## **13. DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

## 14. TRANSPORT INFORMATION

14.1 Not classified as dangerous material for the transportation according to ADR/RID, IMDG, ICAO/IATA and US DOT transportation codes.

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

### 15.2 Chemical Safety Assessment

A CSA has been carried out for the raw materials in this product, from the raw materials manufacturers (when needed to be carried out).

## 16. OTHER INFORMATION

### 16.1 Full text of Hazard Code(s) referred in Section 3

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### 16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

bw: Body weight.

Carc.: Carcinogenicity.

CAS number: Chemical Abstracts Service number.

CLP: Classification Labelling Packaging Regulation.

CSA: Chemical Safety Assessment.

CSR: Chemical Safety Report.

DNEL: Derived No Effect Level.

dw: Dry weight.

EC number: EINECS and ELINCS number.

EC: European Commission.

EC50: Half maximal effective concentration.

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances.

EmS: Emergency Schedule.

ERC: Environmental Release Category.

ES: Exposure scenario.

food: oral feed.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.  
Irrit.: Irritation.  
LC50: Lethal concentration, 50 %.  
LD50: Median Lethal dose.  
LOAEC: Lowest Observed Adverse Effect Concentration.  
LOAEL: Lowest Observed Adverse Effect Level.  
MK value: Maximum Concentration value.  
NCO: An international corporation that provides customer service contracting.  
NOAEC: No Observed Adverse Effect Concentration.  
NOAEL: No Observed Adverse Effect Level.  
NOEC: No Observed Effect Concentration.  
OECD: Organisation for Economic Cooperation and Development.  
PBT: Persistent, Bioaccumulative and Toxic.  
PNEC: Predicted No Effect Concentration.  
PROC: Process category.  
REACH: The Registration, Evaluation, Authorisation and Restriction of Chemicals.  
Resp.: Respiratory.  
Sens.: Sensitization.  
STEL value: Short Term Exposure Limit value.  
STOT RE: Specific target organ toxicity — repeated exposure.  
STOT SE: Specific target organ toxicity — single exposure.  
STOT: Specific Target Organ Toxicity.  
STP: Sewage Treatment Plant.  
SU: Sector of use.  
Tox.: Toxicity.  
TWA value: Time Weighted Average value.  
vPvB: Very Persistent and Very Bioaccumulative.

## **16.2 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.