

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

1.1 IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

Product Name	Unimarc Vernice
Product Series	316
Product Usage	Semigloss Water Dilutable Polyurethane Indoor Wood Varnish
Color	All

1.2 MANUFACTURER INFORMATION

Company Name	Colorificio San Marco S.P.A.
Address	Via Alta 10 District and Country 30020 Marcon (VE)
Phone Number	041 4569322 – Telephone 041 5950153 – Fax
E-Mail	sicurezza.prodotti@sanmarcogroup.it competent person responsible for the Safety Data Sheet
Product Distribution	San Marco USA

Emergency Telephone **Call 911 if you have a poison emergency.**
Call the CDC if swallowed but person is alert 1-800-222-1222

2 HAZARDS IDENTIFICATION

This product is not dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Nevertheless, this preparation contains dangerous substances in concentrations that must be declared in section No. 3 and requires a safety data sheet containing all the information required under the Regulation (EC) 1907/2006 and subsequent amendments.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Name	Concentration C	Classification
2-Butoxyethanol	4 <= C < 4,5	Xn R20/21/22
Cas No 111-76-2		Xi R36/38
CE No 203-905-0		
Index No 603-014-00-0		

The complete text of -R- phrases is specified in section 16.

4 FIRST AID MEASURES

Eyes	Wash immediately with plenty of water for at least 15 minutes and seek medical advice at once.
Skin	Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.
Ingestion	Remove to open air. If breathing is irregular, seek medical advice.

Inhalation Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

5 FIRE-FIGHTING MEASURES

General Information Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Suitable Extinguishing Media The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulised water.

Extinguishing Media which Shall Not be Used for Safety Reasons

None in particular.

Hazards Caused by Exposure in the Event of Fire

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

Special Protective Equipment for Fire-Fighters

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of foam.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. If there are no contraindications, spray solid products with water to prevent the formation of dust. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or the leaked product before donning appropriate protective gear. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, see the other sections of this sheet.

Environmental Precautions The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

Methods For Cleaning Up Use inert absorbent material (sand, vermiculite, diatomeous earth, Kieselguhr, etc.) to soak up leaked product. Collect the majority of the remaining material and deposit it in containers for disposal. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

7 HANDLING AND STORAGE

Store in a well ventilated place, keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, bright flames and sparks and other sources of ignition.

8 EXPOSURE CONTROL / PERSONAL PROTECTION.

8.1 EXPOSURE LIMIT VALUES

Name	Type	Country	TWA/8h		STEL/15min		
			mg/m ³	ppm	mg/m ³	ppm	
Calcium Hydroxide	TLV-ACGIH		97				Skin
	OEL	EU	98				Skin
	OEL	IRL		20		50	Skin
	WEL	UK		25		50	Skin
TLV of Solvent Mixture			97 mg/m ³				

8.2 EXPOSURE CONTROLS

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures, such as: masks suitable for the product, goggles, gloves and overall. Do not eat, drink or smoke while handling it. Wash hands accurately with soap and water before meals and at the end of the work shift.

9 PHYSICAL AND CHEMICAL PROPERTIES

Colour	Colorless
Odor	Odorless
State	Liquid
Solubility	Not Available
Viscosity	500 cps
Vapour Density	Not Available
Evaporation Speed	Not Available
Comburent Properties	Not Available
Partition Coefficient: N-Octanol/Water	Not Available
pH	Not Available
Boiling Point	Not Available
Flash Point	> 55°C
Explosive Properties	Not Available
Vapour Pressure	Not Available
Specific Gravity	1,050Kg/l

10 STABILITY AND REACTIVITY

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbon oxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.

Propylene Glycol: it is hygroscopic, stable at normal conditions; at high temperatures, it tends to oxidize yielding propionaldehyde as well as lactic and acetic acid.

2-Butoxyethanol may form explosive peroxides; it reacts with light metals, such as aluminium (ref. H.C.S.).

iFi TOXICOLOGICAL INFORMATION

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This product may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

1,2-Propanediol oral LD50 (mg/kg) 20800 (RAT) ; dermal LD50 (mg/kg) 20800 (RAT)

2-Butoxyethanol oral LD50 (mg/kg) 470 (RAT) ; dermal LD50 (mg/kg) 220 (RABBIT) ;
inhalation LC50 (rat) 2,21 mg/l/4h

iFj ECOLOGICAL INFORMATION

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

iFk DISPOSAL CONSIDERATION

Consider the possibility of burning the product in a suitable incenerator.

Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

iFl TRANSPORT INFORMATION

This substance is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

iFm REGULATORY INFORMATION

Warning Symbols None

Hazard Sentences (R) None

Caution Recommendations (S) None

Safety data sheet available upon request for professional users.

Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments.

iFn OTHER INFORMATION

Text of -R- phrases quoted in section 3 of the sheet.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin.

GENERAL BIBLIOGRAPHY

1 Directive 1999/45/EC and following amendments;

2 Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);

- 3 Regulation (EC) 1907/2006 (REACH) of the European Parliament;
- 4 The Merck Index. - 10th Edition;
- 5 Handling Chemical Safety;
- 6 Niosh - Registry of Toxic Effects of Chemical Substances;
- 7 INRS - Fiche Toxicologique (toxicological sheet);
- 8 Patty - Industrial Hygiene and Toxicology;
- 9 N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

NOTE FOR USERS

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Changes to previous review

The following sections were modified: 01 / 02 / 03 / 04 / 06 / 08 / 09 / 10 / 11 / 15 / 16