



TECHNICAL DATA SHEET*
WTVE097M30

VERNICE ALL'ACQUA 97M 30
(WATERBORNE VARNISH 97M 30 GLOSS)

- Technical name:** product based on special crosslinking watersoluble resins
- Application:** suitable for coatings of well-edged woods with a good drying time and verticality. Suitable for doors and flat panels as well.
P.S. To get a good coating result it is advisable to work into rooms with temperatures not lower than 10°C and relative humidity not higher than 70%. Do not expose to intense cold. Store at temperature higher than 5°C.
- Properties:** rapid drying time, good superficial hardness, good verticality, matt silk effect, low content of coalescent substances.
This varnish is classified M1 according to the French Rule
- Type of Application:** traditional spraying or air with airmix spray gun (nozzle 0,11, pressure 4 atmosphere) or curtain coater

APPLICATION NOTES

Catalyst

Thinning ratio Ready to use or it can be thinned with no more than 10% water

PHYSICAL AND CHEMICAL PROPERTIES (20°C)

Solid Content (%) 33

Weight 1,05 +/- 0,02

Viscosity 1'05" - 1'10" Ford Cup 4

Pot life (comp. A + comp. B + thinner)

DRYING AT ROOM TEMPERATURE (20°C-25°C)

Dust Free 15 min

Touch Drying 30 min

Trough Drying 1 hour

* **Attention:** our Technical Data Sheets are written on the ground of the average results of our tests. However, technical suggestions are given in good faith, but without any warranty. Actually, different types of supports, conditions, plants and dilution are very important for the final result and often beyond our control. Customers should test our products in order to verify that they are suitable to their necessity. As for us, we can just warrant the continuity of the physical and chemical composition. The user is responsible for the fact that the application of the products must occur within an airy space and in accordance with the sanitary and industry legislation in force.



Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: WTVE097M20
Product name: VERNICE ALL'ACQUA 097M Op.20

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

Intended use: Varnish for furniture

1.3. Details of the supplier of the safety data sheet

Name: ICRO COATINGS S.P.A.
Full address: VIA BEDESCHI,25
District and Country: 24040 CHIGNOLO D'ISOLA ITALIA BG
Tel: +39 035/999711
Fax: +39 035/999712

e-mail address of the competent person responsible for the Safety Data Sheet: sicurezza-sds@icro.it

1.4. Emergency telephone number

For urgent inquiries refer to: Centro Antiveleni-Ospedale Niguarda di Milano
tel. +39 0266101025

2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to EC Regulation 1907/2006 and subsequent amendments.

Warning symbols: None

Hazard sentences (R): None

2.2. Label elements

Hazard labeling under the 67/548/EEC and 1999/45/EC directives and following amendments and adjustments.

Warning symbols: None

Hazard sentences (R): None

Caution recommendations (S): None

Safety data sheet available for professional users on request.

2.3. Other hazards

Information not available

3. Composition/information on ingredients

3.1. Substances

Information not relevant



3.2. Mixtures

Contains:

Identification	Conc. %	Classification 67/548/EEC	Classification 1272/2008 (CLP)
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DIPROPYLENE GLYCOL MONOMETHYL ETHER

CAS 34590-94-8 0,50 - 2,50
EC 252-104-2

Substance with a community workplace exposure limit.

2-BUTOXYETHANOL

CAS 111-76-2 0,50 - 2,50 Xn R2021/22, Xi R36/38
EC 203-905-0
INDEX 603-014-00-0

Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Irrit. 2 H315,
Eye Irrit. 2 H319, Acute Tox. 4 H332

Xn= HARMFUL, Xi= IRRITANT

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet

4. First aid measures

4.1. Description of first aid measures

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION: Remove to open air. If breathing is irregular, seek medical advice.

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

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

For symptoms and effects caused by the contained substances see chap. 11

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

Follow doctor's orders

5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA

The extinction equipment to be used is the conventional kind: carbon dioxide, foam, powder and nebulised water;

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion.

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

5.3. Advice for firefighters

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.

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), self-respirator (self-protector).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Use inert absorbent material (sand, vermiculite, diatomaceous 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.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Do not smoke while handling and use.

7.2. Conditions for safe storage, including any incompatibilities

Store in a well ventilated place, keep far away from sources of heat, bright flames and sparks and other sources of ignition.

7.3. Specific end use(s)

Information not available

8. Exposure controls/personal protection

8.1. Control parameters

Product name	Type	Country TWA/8h		STEL/15min		
		mg/m ³	ppm	mg/m ³	ppm	
DIPROPYLENE GLYCOL MONOMETHYL ETHER	TLV-ACGIH					150 Skin
	OEL	EU	308	50		Skin
	OEL	IRL		50		100 Skin
	WEL	UK		50		Skin
2-BUTOXYETHANOL	TLV-ACGIH			20		Skin
	OEL	EU	98	20	246	50 Skin
	OEL	IRL		20		50 Skin
	WEL	UK		25		50 Skin

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent.

HAND PROTECTION

Protect hands with category I (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in latex, PVC or equivalent.

The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

RESPIRATORY PROTECTION

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an A or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

EYE PROTECTION

Use of protective airtight goggles (ref. standard EN 166) recommended.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Not available
Odour	Not available
Odour threshold	Not available
pH	Not available
Melting or freezing point	Not available
Boiling point	Not available
Distillation range	Not available
Flash point	Not applicable
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	1,055 Kg/l
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Reactive Properties	Not available

9.2. Other information

VOC (Directive 1999/13/EC) :
VOC (volatile carbon) :

3,86% - 40,72 g/litro
2,26% - 23,84 g/litro

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10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

DIPROPYLENE GLYCOL MONOMETHYL ETHER: may react with oxidising agents. When heated to decomposition it releases harsh and irritating fumes and vapours.

2-BUTOXYETHANOL: decomposes in the presence of heat.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage

2-BUTOXYETHANOL: can react dangerously with: aluminium, oxidising agents. Forms peroxide with air.

10.4. Conditions to avoid

None in particular, however the usual precautions used for chemical products should be respected.

2-BUTOXYETHANOL: avoid exposure to sources of heat and naked flames.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

2-BUTOXYETHANOL: hydrogen.

11. Toxicological information

11.1. Information on toxicological effects

2-BUTOXYETHANOL

LC50 (Inhalation): 2,210 mg/l/4h Rat

LD50 (Dermal): 600,000 mg/kg Rabbit



12. Ecological information

12.1. Toxicity

Information not available

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.

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

Information not available

12.6. Other adverse effects

Information not available

13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information

The product 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.

15. Regulatory information

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

Seveso category None

Substances in Candidate List (Art. 59 REACH)
None

Substances subject to authorisation (Annex XIV REACH)
Information not available

Healthcare controls
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Product not intended for uses provided for by Dir. 2004/42/CE.

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains

16. Other information

Key for the CLP classifications mentioned in sections 2 and 3 of the sheet.

Acute Tox. 4	Acute toxicity, category 4
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
H332	Harmful if inhaled.

H312	Harmful in contact with skin.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H315	Causes skin irritation.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R20/21/22 R36/38	HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. IRRITATING TO EYES AND SKIN.
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GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (J Alp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. The Merck Index. - 10th Edition
8. Handling Chemical Safety
9. Niosh - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique (toxicological sheet)
11. Patty - Industrial Hygiene and Toxicology
12. 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:

02/03/08/09/10/11/12/13/14/15