

**SAFETY DATA SHEET**

Date of issue: 04.01.2007

Date of update : 09.10.2007

Number: DB\_2\_02

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

**1.1. Identification of the preparation:** SUPRAMAL Water Based Surface Varnish 1K  
SUPRAMAL Water Based Surface Varnish 2K

**1.2. Use of the preparation:** It is polyurethane varnish designated for varnishing wooden surfaces

**1.3. Company/undertaking identification:** NOVOL Sp. z o.o. Tel: (061) 810-98-00  
ul. Żabikowska 7/9 Fax: (061) 810-98-09  
62-052 Komorniki [www.novol.pl](http://www.novol.pl)  
Emergency tel: (061) 810-98-00

**2. HAZARDS IDENTIFICATION**

Product is not harmful for health and environment according to UE rules.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

| EEC No.      | Name of the substance     | WE No.    | CAS No.  | Classification of the substance | Marking of the substance                  | Composition |
|--------------|---------------------------|-----------|----------|---------------------------------|---|-------------|
| 606-021-00-7 | 1-methyl-2-pyrrolidone    | 212-828-1 | 872-50-4 | Xi;<br>R36/38                   | Xi<br>R:36/38<br>S: (2-)41                | 2-4%        |
| 603-014-00-0 | 2-butoxyethanol           | 203-905-0 | 111-76-2 | Xn; R20/21/22<br>Xi; R36/38     | Xn<br>R:20/21/22-36/38<br>S: (2-)36/37-46 | 1-3%        |
| 603-096-00-8 | 2-(2-butoxyethoxy)ethanol | 203-961-6 | 112-34-5 | Xi; R36                         | Xi<br>R:36<br>S: (2-)24-26                | 1-2%        |

**4. FIRST AID MEASURES**

**GENERAL INFORMATION:** See 11 point Product Date Sheet.

**INHALATION:** Ensure calm, quiet surroundings, fresh air, and seek medical advice.

**SKIN:** Take off soiled clothes. Wash off with plenty of lukewarm water and soap (at least 15 minutes). Consult a doctor in the event of skin reaction.

**EYES:** **Hold the eyes open** and rinse immediately with plenty of lukewarm water (at least 15 minutes). Contact with ophthalmologist.

**ALIMENTARY TRACT:** Do not provoke vomiting (risk of choking). Drink 1-2 glasses of water. Rinse mouth with lukewarm water. Medical help is required.

**5. FIRE-FIGHTING MEASURES**

**FIRE EXTINGUISHING SUBSTANCES:** Powder, foam resistant to alcohols, carbon dioxide, watermist.

**SPECIAL HAZARDS:** Fire may cause the generation of carbon monoxide.

**PROTECTIVE EQUIPMENT:** Firemen have to wear self-contained breathing apparatus and protective clothing.

**OTHER INFORMATION:** Cool adjacent tanks by spraying water from a safe distance.

**6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PROTECTION:** Eliminate sources of ignition. Ensure sufficient ventilation in this room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Put on protective equipment see chapter 8.

**PROTECTION OF THE ENVIRONMENT:** Prevent to get through to the sewage system, to the surface water, underground water, to the soil. In case of a major spillage the affected area should be separated with bounds.

**ACTION IN CASE OF SPILLAGE:** Seal the container; damaged containers should be placed in emergency containers. Besprinkle spillage, use e.g. mica, wood flour, sand. Remove the substance mechanically and put to emergency containers. For further disposal measures: see chapter 13.

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**7. HANDLING AND STORAGE**

**HANDLING RULES:** Keep away from heat and sources of fire. Do not smoke. Do not inhale vapours. Avoid contact with skin and eyes. Take precautionary measures against electrostatic loading. Use only in well ventilated place. Put on protective equipment –see chapter 8. Read Technical Data Sheet before use.

**STORAGE:** Keep in sealed containers in cool, well ventilated place. Storage in temperature above +5°C. Avoid temperature below +35°C.

**USE OF THE PREPARATION:** See the technical product data sheet.

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Use only in well ventilated places. Avoid contact with skin and eyes.

**LIMIT VALUES:**

for 1-methyl-2-pyrrolidone CAS 872-50-4 according to:

- *TRGS 900:* MAK: 20 ppm, 82 mg/m<sup>3</sup>, 2(II),DFG, H, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 25 ppm, 103 mg/m<sup>3</sup>, STEL 75ppm, 309 mg/m<sup>3</sup>, Sk

for 2-butoxyethanol CAS 111-76-2 according to:

- *TRGS 900:* MAK: 20 ppm, 98 mg/m<sup>3</sup>, 4(II),DFG, H, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 25 ppm, -- mg/m<sup>3</sup>, STEL 50ppm, -- mg/m<sup>3</sup>, Sk

for 2-(2-butoxyethoxy)ethanol CAS 112-34-5 according to:

- *TRGS 900:* MAK: -- ppm, 100 mg/m<sup>3</sup>, 1(I),DFG, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 10 ppm, 67.5 mg/m<sup>3</sup>, STEL 15ppm, 101.2 mg/m<sup>3</sup>

**RESPIRATORY TRACT PROTECTION:** Gas mask.  
**PROTECTION OF HANDS:** Protective gloves (viton, neoprene).  
**EYES PROTECTION:** Protective glasses.  
**SKIN PROTECTION:** Suitable protective clothing.  
**WORKPLACE:** Topical stays and exhausting ventilation.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state: liquid  
Colour: milky white  
Smell: poor  
pH: approx. 8  
Boiling point: approx. 99°C  
Flash-point: approx 100°C  
Autoignition point: approx 230°C  
Explosion limits % lower:: 1.3 vol% upper: 9.5 vol% (1-methyl-2-pyrrolidone)  
Density: 1.0 g/cm<sup>3</sup> (20°C)  
Water solubility: soluble  
Vapour pressure: approx 166 mbar (55°C)  
Viscosity Ford φ4: approx 17s

**10. STABILITY AND REACTIVITY**

**STABILITY:** The product remains stable under normal conditions.

**AVOID THE CONTACT OF THE MATERIAL WITH:** High temperature, strong oxidants, acids, basis,.

**DANGEROUS DECOMPOSITION PRODUCTS:** Carbon monoxide, hydrofluoride and other toxic gasses are generated as a result of thermal decomposition.

**11. TOXICOLOGICAL INFORMATION**

Toxicological studies at the preparation are not available.

**TOXICITY:** 1-methyl-2-pyrrolidone LD<sub>50</sub> (rat, oral) 3598 mg/kg

**IRRITATING EFFECT:** Skin: irritating to skin and mucous membranes  
Eyes: irritating effect

**SYMPTOMS OF POISONING:** If swallowed, the substance may cause irritation of the alimentary tract, nausea, vomiting, and diarrhoea.

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**12. ECOLOGICAL INFORMATION (for styrene)**

Ecological studies at the preparation are not available.

The product is soluble in water. Keep away from the sewage system, surface water, underground water, and soil.

Product doesn't undergo biodegradation.

Toxicity for fish: LC<sub>0</sub>= 1000mg/lLC<sub>100</sub>=10000mg/l

1-methyl-2-pyrrolidone: Daphnia magna/LC50 (24godz.) &gt; 1000 mg/l

**13. DISPOSAL CONSIDERATIONS****RECOMMENDATION:** Product must be disposed of by special means in accordance with local regulations.**REMAINS OF PRODUCT:** Remains of product in the tin should be carefully remove and leave to dry  
**code of waste: 08 01 11** in well ventilated places. Dried product is not harmful waste.**CLEAN TIN:** Tin carefully clean is not harmful waste.**code of waste: 15 01 02****TIN PARTLY EMPTY:** See remains of product.**14. TRANSPORT INFORMATION****GENERAL INFORMATION:** Product is not dangerous goods. Avoid temperatures below +5°C and above +35°C.  
Protect against frost.**15. REGULATORY INFORMATION**

Safety data sheet in accordance with Directives:

67/548/EWG(2006/121/WE)

91/155/EWG (2001/58/WE)

1999/45/EC (2006/8/WE)

2006/1907/WE REACH

Other regulations: ADR (2007-2009) , IMDG Code 2006 Edition

**CONTAINS:** Product is not harmful for health and environment according to UE rules.**SAFETY-PHRASES:**  
S(2-) Keep out of the reach of children.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37 Wear suitable protective clothing and gloves  
S46 If swallowed, seek medical advice immediately and show this container or label  
S51 Use only in well-ventilated areas**16. OTHER INFORMATION**

Full text of the R-Phrase from section 2:

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

R36/38 Irritating to eyes and skin.

Information contained herein is based on our current knowledge. This document does not constitute a warranty for product characteristics.

Issued by: NOVOL Sp. z o.o.

Information: Laboratory Research and Development; tel. +48 61 810 99 09