

## Section 1: Name of substance/preparation and firm

### Product information

**1.1 Trade name :** NOVORYT-Lacquer  
mat / silk-mat / silk-shine

**1.2 Purpose:** Coating of wood- and synthetic surfaces

**1.3 Article number:** 160.001 / 160.002 / 160.003

**1.4 Manufacturer/Supplier:**

**Firm:** NOVORYT AG  
Zietmattweg 14  
CH-4462 Rickenbach  
☎ 0041 (0)61 985 83 83  
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**Information provided by:** Laboratory

**1.5 Emergency information:** NOVORYT AG ☎ 0041 (0)61 985 83 83

## Section 2 :Composition/information on constituents

### 2.1 Chemical characterization

Basic raw materials: Cellulose nitrate, resins, softeners, additives, solvents

#### Dangerous constituents

Designation:	R-Sätze	Symbole	Geh. -%	Einecs-Nr.	CAS-Nr
Butan	11-36-66-67	F Xi	15-25%		78-93-3
Dimethylether	12	F+	40-50%		115-10-6
Aceton	11-36-66-67	F, Xi	20-25%	200-662-2	67-64-1
Ethylacetat	11-36-66-67	F, Xi	5-10%	205-500-4	141-78-6
n-Butylacetat	10-66-67	F, Xi	5-10%	204-658-1	
Ethanol : Ethylalkohol	11	F	0.5-5%	200-578-6	

(For plain texts of R-phrases, see item No. 16)

## Section 3: Hazards identification

### 3.1 possible dangers of formulation

**Danger designation:** Xi Irritant  
F Highly flammable

#### Special danger notes for human beings and environment:

##### Classification under CLP

11. Highly flammable  
35/38 Irritating to eyes and skin  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects  
In the aquatic environment.  
67 Vapours may cause drowsiness and dizziness

### 3.2 Classification according CLP

Extremely flammable aerosol  
**H222** Pressurised container:May burst if heated  
**H229** Causes skin irritation  
**H315** Causes serious eye irritation  
**H319** May cause drowsiness or dizziness

- H336** Harmful to aquatic life with long lasting effects  
**H412** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P210**
- P211** Do not spray on an open flame or other ignition source  
**P251** Do not pierce or burn, even after use.  
**P261** Avoid breathing fume/gas vapours/spray  
**P271** Use only outdoors or in a well-ventilated area.

**Signalword** Danger

**Hazard pictograms**



## Section 4 First-aid measures

### 4.1 General notes:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

#### **After inhalation:**

Ensure ample supply of fresh air, bring affected person into a comfortable resting position and keep it warm. Start artificial respiration when it breathes irregularly or stops breathing. In case of unconsciousness, bring person into stable lateral position, and consult a doctor.

#### **After skin contact:**

Take off immediately any soiled and soaked clothing. Thoroughly clean wetted skin with water and soap or another suitable cleanser. Never use solvents or thinners!

#### **After eye contact:**

Keep eyelids open and thoroughly rinse eyes for at least 10 minutes with clean flowing water; see a doctor.

After swallowing:

**After swallowing, consult a doctor immediately! Keep affected person quiet.**

**P304+P340 IF INHALED:** Remove person to fresh air and keep comfortable for breathing

**P302+P352 IF ON SKIN:** Wash with plenty of water

**P305+P351+P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

## Section 5 Fire-fighting measures

### 5.1 Suitable fire-extinguishing agents:

Foam (resistant to alcohol), carbon dioxide, powder, spray mist (water)

Fire-extinguishing agents unsuitable for safety reasons: direct water, jet

### 5.2 Special dangers through formulation, combustion products or produced gases:

A dense, black smoke is produced when the product burns. Inhaling dangerous decomposition products may be very injurious to health.

### 5.3 Special protective equipment:

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A respiratory protection apparatus may be required. Cool closed vessels in the proximity of the source of fire with water.

## Section 6 Measures to be taken in case of unintentional release

### 6.1 Precautionary measures to be taken by persons:

Keep away from ignition sources, and assure adequate ventilation of the room. Do not inhale vapours. Follow safety regulations (see paragraphs 7 and 8).

### 6.2 Environmental protection measures:

Observe local waste water regulations. Do not discharge into water bodies/ground and sewerage system. In case of contamination of rivers, lakes or sewage pipes, inform the competent authorities in accordance with local statutory regulations.

### 6.3 Methods for cleaning/removal:

Stop spreading of released material using non-flammable absorbing materials (e.g. sand, soil, vermiculite, diatomaceous earth), and collect it in appropriate containers in conformity with local regulations. Cleansing agent should preferably be used and no solvents, if possible.

## Section 7 Handling and storing

### 7.1 Instructions for safe handling:

Avoid the formation of inflammable and explosive solvent vapours in the air and exceeding of the threshold limit values. Use the material only in places sufficiently away from open light, fire and other ignition sources. The material may become electrostatically charged. Thus, when refilling, use earthed lines only. It is advisable to wear antistatic clothing and shoes. Use non-sparking tools. Avoid contact with the eyes and skin. Do not inhale vapours and spray mist. Do not eat, drink or smoke during work. For personal protective gear, see paragraph 8. Observe relevant legal protective and safety regulations. If workers, whether spraying or not, have to work within the spray booth, it is unlikely that aerosols and solvent vapours can be sufficiently controlled. Under such conditions, they should wear a compressed-air respiratory protection apparatus during spraying up to the time when the aerosol and solvent-vapour concentrations have dropped below the exposure limit value.

### 7.2 Notes for fire and explosion protection:

Solvent vapours are heavier than air and spread on the ground. Together with air, vapours form an explosive mixture.

### Storing

### 7.3 Notes concerning storage together with other materials:

Keep away from superacid and alkaline materials as well as from oxidizing agent.

### Further notes concerning storage conditions:

Store in a well ventilated place. Protect from heat (not heating over 50 degrees) and direct sun radiation. Keep away from ignition sources.

## Section 8 Measures to reduce danger of exposure and personal protective gear

Provide adequate ventilation. This can be achieved by local suction or general exhaust air. If this is insufficient need to keep the solvent vapor concentration below the exposure limit, respiratory protection must be worn.

**P285** Wear respiratory protection in case of insufficient ventilation

### 8.1 Constituents with workplace-related limit values requiring monitoring:

EINECS-No.	Designation	Type	Value	Unit
	Butan	MAK	200.000	
	Dimethylether	MAK	1000.000	ppm
200-662-2	Aceton	MAK	500.000	ppm

205-500-4	Ethylacetat	MAK	400.000	ppm
204-658-1	n-Butylacetat	MAK	100.000	ppm
200-578-6	Ethanol : Ethylalkohol	MAK	1000.000	ppm

The values given have been taken from the lists valid at the time of preparation.

## 8.2 Personal protective gear

### Respiratory protection:

If the solvent concentration is higher than the applicable threshold limit values, a respiratory protection apparatus approved for the application in question must be worn (Respiratory protection-specification BGR 190).

### Hand protection:

Protective gloves

In case of prolonged or repeated contact: Use protective creams for the skin areas getting in contact with the product. Follow the manufacturer's recommendations.

### Eye protection:

Wear protective goggles to protect your eyes from solvent splashes

## Section 9 Physical and chemical properties:

### 9.1 Appearance:

**Form :** liquid  
**Colour:** Product-specific  
**Odour:** Charact. Of organic solvents

### 9.2 Safety-related data:

<b>Change in state:</b>	56° C		Value from literature
<b>Flame point:</b>	Not applicable		
<b>Ignite temperature:</b>	Not applicable		
<b>Explosion limit:</b>			
<b>Lower / Upper:</b>	App.. 3.4 Volt / app. 27 Volt		
<b>Vapour pressure:</b>	50° C	ca. 7200 hPa	Steam pressure scale
	20° C	ca. 4500 hPa	Steam pressure scale
<b>Density:</b>	20° C	ca. 0.88 g/ m <sup>3</sup>	Value from literature
<b>Solid:</b>	ca. 10%		
<b>Share of organic LM:</b>	ca. 90%		

## Section 10 Stability and reactivity

### 10.1 Conditions to be avoided:

Stable when recommended storage and handling instructions are complied with (see paragraph 7).

### 10.2 Substances to be avoided:

Keep away from superacid and alkaline materials as well as oxidizing agents to avoid exothermic reactions.

### 10.3 Dangerous decomposition products:

None if used as directed

### 10.4 More Information

Danger of bursting

## Section 11 Information on toxicology

No information on the formulation is available. The inhalation of solvent components in concentrations exceeding the threshold limit value may be injurious to health causing, e.g., irritation of the mucosa and respiratory organs, kidney and hepatic damage, and may detrimentally affect the central nervous

system.

### 11.1 Signs and symptoms:

Headache, vertigo, tiredness, muscle weakness, stupeficient effect and, in exceptional cases unconsciousness. Prolonged or repeated contact with the product affects the natural refatting of the skin and leads to the desiccation of the skin. The product can penetrate through the skin into the body. Solvent splashes may cause eye irritation and reversible damage.

## Section 12 Information on ecology

### 12.1 Water danger class: 2 (annex 2 VwVwS)

Do not discharge into sewerage system. Remove any leakage immediately.

Ecologically dangerous substades

EINECS No. Designation

R phrases

265-151-9 naphtha

## Section 13 Disposal information

### 13.1 Product

#### Recommendation:

Do not discharge into sewerage system. Do not dispose together with household refuse. Solvent recovery (take notice of the leaflet for the professional cooperative of chemical industry M 037. item 4.2.8), hazardous waste incineration or disposal on hazardous waste dump in conformity with the applicable local regulations.

Waste code No: 080111

Waste paint and varnish containing organic solvents or other dangerous substances.

### 13.2 Uncleaned packings:

#### Recommendation:

Dispose empty containers in conformity with the statutory regulations.

**P501** Dispose of contents/container to recycling

## Section 14 Transport information

Transportation shall be performed only in conformity with the road (ADR), rail (RID), sea (IMDG) and air (ICAO/IATA) transport regulations.

### 14.1 Land transport ADR/RID und GGVS/GGVE

#### Class

GGVS/GGVE

Class 2

Numeral 5

Letter F

RID/ADR

Class 2

Numeral 5

Letter F

Pack. Group II

Danger Sheet

UN 1950

Indication

UN 1950 Aerosols, Class 2, Numeral 5F ADR limited quantity

Post transport (Y/N)?

National

Y

International

N

### 14.2 Inland navigation ADN/ADNR

#### Classification

ADN/ADNR:

Class ADR

### 14.3 Sea transport IMDG/GGVSea

#### Classification

IMDG-Code:

2.

UN-Number:

1950

MarPol

: -

EmS-Number

: 2-13

**Technical Name:** AEROSOLS

**Packing:** Packing group II  
**Danger Sheet:** Aerosols

**Indication:** Dangerous Goods in Limited Quantities of class 2.

#### 14.4 Air Transport ICAO-TI und IATA-DGR

##### Classification

**ICAO-IATA-Class:** 2.1 /-- /--  
**UN-Number:** 1950  
**Technical Name:** Aerosols, flammable  
**Packing:** Packing group II  
**Danger Sheet:** flammable gas  
**Indication:** Dangerous goods in limited Quantities of class 2.  
**Comment:** packing instruction y203

#### Section 15 Regulations

##### 15.1 To be marked according to 1999/45/EG

##### 15.2 To be marked according to CLP-regulation (EG) Nr. 1272/2008

##### 15.3 Code letter and danger designation of product:

Xi Irritant  
F Highly flammable

##### 15.4 Dangerous component(s) requiring labelling:

R-

phrases:

12 Highly flammable.  
36/38 Irritating to eyes and skin.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
67 Vapours may cause drowsiness and dizziness.

S-phrases:

16 Keep away from sources of ignition – No smoking.  
23 Do not breathe gas / fumes / vapour / spray.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
38 In case of insufficient ventilation, wear suitable respiratory equipment.  
51 Use only in well-ventilated areas.  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

##### Special marking:

99 Contains 2-Hydroxy-4-n-octoxy-benzophenon. May produce an allergic reaction.

##### 15.5 Signalword

**Danger**

##### 15.6 Hazard pictograms



##### 15.7 Hazard statements according CLP-regulation

<b>H315</b>	Causes skin irritation
<b>H319</b>	Causes serious eye irritation
<b>H336</b>	May cause drowsiness or dizziness
<b>H412</b>	Harmful to aquatic life with long lasting effects
<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames And other ignition sources. No smoking.
<b>P260</b>	Do not breathe dust/gas/vapours/spray
<b>P305+P351+P338</b>	<b>IF IN EYES</b> : Rinse cautiously with water for several minutes. Remove Contact lenses, if present and easy to do. Continue rinsing.
<b>P285</b>	Wear respiratory protection in case of insufficient ventilation
<b>P273</b>	Avoid release to the environment

### 15.8 Information according to water supply law

**Water danger class:** 2 (annex 2 der VwVwS)

#### Information on intramission protection:

TA-air                      Class I: 0%                      Class II: 5%                      Class III: 73 %

Maximum permissible mass per unit volume of gaseous subst.: 1,50 mg/m<sup>3</sup>

The product is free from formaldehyde.

### Section 16 Other information

#### 16.1 R phrases with respective code number(s) from section 2:

10	Flammable.
22	Harmful if swallowed.
37/38	Irritating to respiratory system and skin.
41	Risk of serious damage to eyes.
67	Vapours may cause drowsiness and dizziness.
38	Irritating to eyes.
20/21	Harmful by inhalation and in contact with skin.
38	Irritating to skin.
11	Highly flammable.
66	Repeated exposure may cause skin dryness or cracking.
43	May cause sensitisation by skin contact.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 16.2 Other information

The information given in this safety data sheet confirm our present state of knowledge and complies with the applicable national and EC legislation. However, we have neither knowledge of nor control over the conditions under which users work. The product may not without prior written approval used for any other purposes than the purpose mentioned in section 1. The user shall be responsible for observing all applicable legal regulations. The information given in this safety data sheet describes the safety requirements apply in to our product and shall not be construed as being guaranteed product properties. The information contained in this safety data sheet is required in conformity with § 14 of the Dangerous Substances Regulations.

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