## ! SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Name of product**

Nano Impregnation
Art-Nr 02.3993.00

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

**Recommended intended purpose(s)**
Coating for wood surfaces

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

**Manufacturer/distributor**

Yachticon A. Nagel GmbH
Hans-Böckler-Ring 33, D-22851 Norderstedt
Phone +49 40 511 3780, Fax +49 40 51 74 37
E-Mail yachticon@yachticon.de
Internet www.yachticon.de

**Advice**

Phone +49 40 511 37 80
Fax +49 40 51 74 37
E-mail (competent person):
yachticon@yachticon.de

### 1.4. Emergency telephone number

**Emergency advice**

Giftinformationszentrale Berlin
Phone +49 (0)30 192 40

## ! SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**! Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

| Hazard classes and Hazard categories | Hazard Statements | Classification procedure |
|---|---|---|
| **Flam. Liq. 2** | **H225** | |
| **Eye Irrit. 2** | **H319** | |
| **STOT SE 3** | **H336** | |

**! Hazard statements for physical hazards**

**H225** **Highly flammable liquid and vapour.**

**! Hazard statements for health hazards**

**H319** **Causes serious eye irritation.**
**H336** **May cause drowsiness or dizziness.**

**! Additional hints**

**This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].**

### 2.2. Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**

**GHS02** **GHS07**

! **Signal word**
**Danger**

! **Hazard statements for physical hazards**

| | |
|---|---|
| **H225** | **Highly flammable liquid and vapour.** |

! **Hazard statements for health hazards**

| | |
|---|---|
| **H319** | **Causes serious eye irritation.** |
| **H336** | **May cause drowsiness or dizziness.** |

**Precautionary Statements**

! **General**

| | |
|---|---|
| P102 | Keep out of reach of children. |

! **Prevention**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

! **Response**

| | |
|---|---|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312 | Call a POISON CENTER/doctor/.../if you feel unwell. |

! **Storage**

| | |
|---|---|
| P405 | Store locked up. |

! **Disposal**

| | |
|---|---|
| P501 | Dispose of contents/container to an approved waste handling. |

! **Special rules for supplemental label elements for certain mixtures**
Contains zirconium tetrabutanolate. May produce an allergic reaction.

**2.3. Other hazards**

! **Results of PBT and vPvB assessment**
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## ! SECTION 3: Composition/ information on ingredients

**3.2. Mixtures**
**Hazardous ingredients**

| CAS No | EC No | Name | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS] |
|---|---|---|---|---|
| **67-63-0** | **200-661-7** | **propan-2-ol** | **50 < 100** | **Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336** |
| **1071-76-7** | **213-995-3** | **zirconium butanolate** | **0,5 < 1** | **Flam. Liq. 3, H226 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Skin Sens. 1, H317 / STOT SE 3, H335** |

**REACH**

| CAS No | Name | REACH registration number |
|---|---|---|
| 67-63-0 | propan-2-ol | 01-2119457558-25-XXXX |

## ! SECTION 4: First aid measures

### 4.1. Description of first aid measures

! **General information**
Remove contaminated soaked clothing immediately and dispose it safely.
In the event of persistent symptoms receive medical treatment.

! **In case of inhalation**
Ensure of fresh air.

! **In case of skin contact**
In case of contact with skin wash off immediately with soap and water.

! **In case of eye contact**
In case of contact with eyes rinse thoroughly with water.
Remove contact lenses.
Call for a doctor immediately.

**In case of ingestion**
Do not induce vomiting.
Seek medical advice immediately.
Rinse out mouth thoroughly with water.

### 4.2. Most important symptoms and effects, both acute and delayed
No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed
No information available.

## ! SECTION 5: Firefighting measures

### 5.1. Extinguishing media
**Suitable extinguishing media**
Alcohol-resistant foam
Dry fire-extinguishing substance
Carbon dioxide
Water spray jet

**Unsuitable extinguishing media**
Full water jet

### 5.2. Special hazards arising from the substance or mixture
In case of fire formation of dangerous gases possible.
Nitrogen oxides (NOx)
Carbon monoxide (CO)
Carbon dioxide (CO2)
Under certain fire conditions traces of other toxic substances cannot be excluded.
In case of fire formation of dense black smoke.

### 5.3. Advice for firefighters

**Special protective equipment for fire-fighters**
Use breathing apparatus with independent air supply.

**Additional information**
Burns down under strong soot production.
Cool endangered containers with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Residues of fire and contaminated fire extinguishing water must not enter drains, surface water or groundwater.

## ! SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**
Keep away from heat and sources of ignition.
Do not breathe vapors.
Avoid contact with clothing, skin and eyes.
Ensure adequate ventilation / exhaustion at the workplace.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
If the product contaminates the drains / surface water / ground water, inform local authorities.

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

Flush away residues with water.
Take up mechanically and send for disposal.
Stam and take up with absorbent material (e.g. sand, soil, vermiculite).

**Additional Information**
Remove all sources of ignition. Avoid open flames.

### 6.4. Reference to other sections

Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8
Emergency telephone number: see section 1

## ! SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

! **Advice on safe handling**
Take measures against electrostatically charging.
Avoid impact, friction and electrostatically charging; risk of ignition!
Take the usual precautions when handling with chemicals.
Avoid prolonged / repeated skin contact.
Do not breathe aerosols / vapors.
Do not inhale polishing dust.

**General protective measures**
Do not inhale vapours.
Avoid contact with eyes and skin

**Hygiene measures**
Do not eat or drink when working.
Clean skin thoroughly after working.
Cloths contaminated with product should not be kept in trouser pockets.
At work do not eat, drink and smoke.
Remove soiled or soaked clothing immediately.
Wash hands before breaks and after work.
Use barrier skin cream.

! **Advice on protection against fire and explosion**
Keep away from sources of ignition - No smoking
Vapours can form an explosive mixture with air.
The vapours of product are heavier than air.
Take precautionary measures against static discharges.
Avoid impact, friction and electrostatically charging.
Use explosion-proof equipment / fittings and non-sparking tools.

**7.2. Conditions for safe storage, including any incompatibilities**
! **Requirements for storage rooms and vessels**
Keep in closed original container.
Floors must comply with the "Guidelines for the Prevention of
Ignition hazards due to electrostatic charges (BGR 132) ".

**Advice on storage compatibility**
Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**
Keep container tightly closed and store at cool and aired place.
Exclude sources of ignition - No smoking.
Protect from heat and direct solar radiation.
Store at 15 to 30 °C.

**Storage group** 3

**7.3. Specific end use(s)**
No information available.

## ! SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**
**biological limits (TRGS 903)**

| CAS No | Name | Parameter | BGW | Examination material | Test date |
|---|---|---|---|---|---|
| 67-63-0 | propan-2-ol | Aceton | 25 mg/l | B | b |
| 67-63-0 | propan-2-ol | Aceton | 25 mg/l | U | b |

**8.2. Exposure controls**
! **Respiratory protection**
In case of insufficient ventilation or long-term effect use breathing apparatus.
Short term: filter apparatus, filter A

! **Hand protection**
Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitril, 0,4 mm, 60 min, 480 min. e.g. "Camatril Profi" (KCL GmbH, Email: Vertrieb@kcl.de)
The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

! **Eye protection**
tightly fitting goggles

! **Other protection measures**
Light protective clothing, antistatic

! **Appropriate engineering controls**
Ensure good ventilation, where necessary use fume hood.

## ! SECTION 9: Physical and chemical properties

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

| Appearance | Colour | Odour |
|---|---|---|
| liquid | colourless | of isopropanol |

**Odour threshold**
No information available.

**Important health, safety and environmental information**

| | Value | Temperature | at | Method | Remark |
|---|---|---|---|---|---|
| **pH value** | 5 - 10 | 20 | | | |
| **boiling point** | 82 °C | | | | |
| **Melting point / Freezing point** | No information available. | | | | |
| **Flash point** | 10 °C | | | DIN 51755 | |
| **Vapourisation rate** | No information available. | | | | |
| **Flammable (solid)** | No information available. | | | | |
| **Flammability (gas)** | No information available. | | | | |
| **Ignition temperature** | 425 °C | | | | |
| **Self ignition temperature** | No information available. | | | | |
| **Lower explosion limit** | 2 Vol-% | | | | |
| **Upper explosion limit** | 12 Vol-% | | | | |
| **Vapour pressure** | 45,79 mbar | 20 °C | | | |
| **Relative density** | 0,78 g/cm3 | 20 °C | | | |
| **Vapour density** | No information available. | | | | |
| **Solubility in water** | | | | | multimiscible |

| | Value | Temperature | at | Method | Remark |
|---|---|---|---|---|---|
| **Solubility/other** | No information available. | | | | |
| **Partition coefficient n-octanol/water (log P O/W)** | No information available. | | | | |
| **Decomposition temperature** | No information available. | | | | |
| **Viscosity dynamic** | < 10 | 20 °C | | | |

**Oxidising properties**
No information available.

**Explosive properties**
No information available.

**9.2. Other information**
No information available.

## ! SECTION 10: Stability and reactivity

**10.1. Reactivity**
No information available.

**10.2. Chemical stability**
Stable under normal conditions of use.
Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents, in order to avoid exothermic reactions.

**10.4. Conditions to avoid**
Heat, open flames, sparks

**10.5. Incompatible materials**
**Materials to avoid**
Alkali (lye)
Acid
Oxidising agent, strong

**10.6. Hazardous decomposition products**
Concerning possible decomposition products see section 5.

**Thermal decomposition**

Remark No decomposition if used as directed.

## ! SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity/Irritability/Sensitization**

| | Value/Validation | Species | Method | Remark |
|---|---|---|---|---|
| **Irritability skin** | irritant effect may occur | | | |
| **Irritability eye** | irritant | | | |
| **Skin sensitization** | Contains a sensitizing substance may cause an allergic reaction. | | | |

! **Experiences made from practice**
May be absorbed through the skin.
Sensitization through skin contact possible.
Prolonged skin contact with the product or its vapors / aerosols may cause skin irritation or sensitization.
Has a degreasing effect on the skin.

Inhalation of large amounts of solvents can cause health effects such as Irritation of mucous membranes and respiratory system, damage to the liver, kidneys and central nervous system.
Ingestion or inhalation of vapors may irritate the mucous membranes of the respiratory tract.
Vapours have a suffocating effect.
After Resporption large quantities: Drowsiness, dizziness, cramps, and in certain circumstances narcosis.

! **Additional information**
The product should be handled with the care usual when dealing with chemicals.
Further hazardous properties can not be excluded.

## ! SECTION 12: Ecological information

### 12.1. Toxicity
No information available.

### 12.2. Persistence and degradability
No information available.

### 12.3. Bioaccumulative potential
No information available.

### 12.4. Mobility in soil
No information available.

### 12.5. Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects
! **General regulation**
Ecological dates are not available.
Product must not enter waters, waste water or soil.

## ! SECTION 13: Disposal considerations

**13.1. Waste treatment methods**
**Recommendations for the product**
There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement. This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects - in the main concerning delivery - are also governed by the Laender.

! **Recommendations for packaging**
Disposal according to official regulations.
Packaging that cannot be cleaned should be disposed of like the product.

**Recommended cleansing agent**
Water, if necessary with cleansing agents.

**General information**
Allocation of the waste number has to be done according to the EWC directive industry- and process-specific.

## ! SECTION 14: Transport information

| | ADR/RID | IMDG | IATA-DGR |
|---|---|---|---|
| **14.1. UN number** | 1219 | 1219 | 1219 |
| **14.2. UN proper shipping name** | ISOPROPANOL (Isopropanol Gemisch) | ISOPROPANOL (ISOPROPANOL (ISOPROPYL ALCOHOL) Mixture) | Isopropanol (Isopropanol Mixture) |
| **14.3. Transport hazard class(es)** | 3 | 3 | 3 |
| **14.4. Packing group** | II | II | II |
| **14.5. Environmental hazards** | No | No | No |

**14.6. Special precautions for user**
No information available.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
No information available.

**Land and inland navigation transport ADR/RID**
Hazard label(s) 3
tunnel restriction code D/E
Classification code F1

## ! SECTION 15: Regulatory information

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

**National regulations**

| | | |
|---|---|---|
| **Water hazard class** | 1 | following VwVwS<br>slightly hazardous to water |

### 15.2. Chemical Safety Assessment

No information available.

## ! SECTION 16: Other information

**Training advice**

See the technical data sheet for more information.

**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

**Further information**

The national special regulations have to be implemented by each user their own responsibility!
The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
Please note: Our Material Safety Data Sheets have been prepared in accordance with EU directives, WITHOUT taking into account the specific national regulations for handling hazardous materials and chemicals.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.3

! **Sources of key data used**

Data sheets of the suppliers.
European Chemicals Agency (ECHA)
Umweltbundesamt (Wassergefährdungsklasse)

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |