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

### 1.1. Product identifier

Name of product Nano 11  
Art-Nr 02.2199.00

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

#### Recommended intended purpose(s)

Sealant for metal and plastic surfaces

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

#### Manufacturer/distributor

Yachticon A. Nagel GmbH  
Bürgermeister-Bombeck-Str. 1, 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

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## ! 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	
Skin Sens. 1	H317	
Asp. Tox. 1	H304	
Aquatic Chronic 3	H412	

#### ! Hazard statements for physical hazards

H225 Highly flammable liquid and vapour.

#### ! Hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

#### ! Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

#### ! 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



GHS08

**! Signal word**  
Danger

**! Hazard statements for physical hazards**  
H252 Highly flammable liquid and vapour.

**! Hazard statements for health hazards**  
H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.

**! Hazard statements for environmental hazards**  
H412 Harmful to aquatic life with long lasting effects.

**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.  
P243 Take precautionary measures against static discharge.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**! Response**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...  
P302 + P352 BEI BERÜHRUNG MIT DER HAUT: Mit viel Wasser/Seife waschen.  
P331 Do NOT induce vomiting.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

**! Storage**

P405 Store locked up.

**! Disposal**

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

**Hazardous ingredients for labeling**

glycidyl polydimethylsiloxane, C4-hydrocarbons. 1,3-butadiene-free, polym., Triisobutylene fraction hydrogenated, Hydrocarbons, C10-C12, isoalkanes, <2% aromatics

**Supplemental Hazard information (EU)**

**Health properties**

Repeated exposure may cause skin dryness or cracking.

**Additional information**

**Special rules on packaging**

Touchable warning sign (EN/ISO 11683).  
Childproof closures (EN/862/ISO 8317).

### 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

### 3.1. Substances

not applicable

### 3.2. Mixtures

#### ! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
102782-97-8		glycidyl polydimethylsiloxane	2,5 - 5	Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Eye Irrit. 2, H319
107-46-0	203-492-7	hexamethyldisiloxane	5 - 10	Flam. Liq. 2, H225 / / Aquatic Acute 1, H400 / Aquatic Chronic 2, H411
93685-81-5	297-629-8	C4-hydrocarbons, 1,3-butadiene-free, polym., Triisobutylene fraction hydrogenated	50 - 100	Flam. Liq. 3, H226 / Asp. Tox. 1, H304
	923-037-2	Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	20 < 25	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411

#### REACH

CAS No	Name	REACH registration number
107-46-0	hexamethyldisiloxane	01-2119496108-31-XXXX
	Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	01-2119471991-29-XXXX

## ! SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### ! General information

Remove contaminated soaked clothing immediately.  
If symptoms occur consult a physician.

#### ! 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.  
Seek medical advice immediately.

#### ! In case of ingestion

Refer to medical treatment.  
Rinse out mouth thoroughly with water.  
Do NOT induce vomiting - risk of aspiration!

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

#### Physician's information / possible dangers

Risk of serious lung damage in aspiration. This may cause pulmonary edema and pneumonia.

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

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## **! SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **! Suitable extinguishing media**

Alcohol-resistant foam  
Dry powder  
Carbon dioxide  
Water spray jet

#### **Unsuitable extinguishing media**

Full water jet

### **5.2. Special hazards arising from the substance or mixture**

Fire gas of organic material has to be classed invariably as respiratory poison.  
In the event of fire the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
Incomplete combustion may lead to formation of toxic pyrolysis products.  
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 ( isolated ).  
Wear full protective clothing.

#### **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.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Remove containers from the danger area, if possible without risk.

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## **! SECTION 6: Accidental release measures**

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

#### **! For non-emergency personnel**

Ensure adequate ventilation.  
Keep away from heat and sources of ignition.  
Use personal protective clothing.  
Do not breathe vapors.  
Avoid contact with clothing, skin and eyes.

### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.  
Prevent spread over a wide area (e.g. by containment or oil barriers).  
If product enters water course or sewage system, inform the responsible authority.

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

Send in suitable containers for recovery or disposal.

After taking up the material dispose according to regulation.

Ensure adequate ventilation.

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

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Provide good room ventilation even at ground level (vapours are heavier than air).

Keep container tightly closed.

#### General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

Avoid breathing sanding dust.

#### Hygiene measures

Clean skin thoroughly after working.

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Work in rooms with good ventilation.

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

The heavy vapours may bridge a long distance to source of ignition.

The vapours of product are heavier than air.

Ignitable mixtures can be formed in the empty container.

Formation of explosive gas mixtures in air.

Formation of ignitable mixtures with air when heated above flash point and / or during spraying (atomizing) possible.

Avoid impact, friction and electrostatically charging.

Use explosion-proof equipment / fittings and non-sparking tools.

Avoid open flames, sparks or other ignition sources and sunlight.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep in closed original container.

Provide solvent-resistant and impermeable floor.

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**Advice on storage compatibility**

Do not store with acids or alkalies.  
Do not store together with oxidizing agents.

**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.

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**! SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

No information available.

**8.2. Exposure controls**

**! Respiratory protection**

In case of insufficient ventilation or long-term effect use breathing apparatus.  
Short term: filter apparatus, filter A  
Not necessary with adequate exhaust ventilation.

**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.

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**! SECTION 9: Physical and chemical properties**

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

**Appearance**

liquid

**Colour**

colourless

**Odour**

of hydrocarbons

**Odour threshold**

Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 03.08.2016

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**Nano 11**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	3,5 - 5,5	20 °C			
<b>Boiling temperature / boiling range</b>	not determined				
<b>Melting point / Freezing point</b>	not determined				
<b>Flash point</b>	22 °C			DIN 51755	
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	200 °C				
<b>Self ignition temperature</b>	not determined				
<b>Lower explosion limit</b>	0,6 Vol-%				
<b>Upper explosion limit</b>	38 Vol-%				
<b>Vapour pressure</b>	12,94 mbar	20 °C			
<b>Relative density</b>	0,77 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>		20 °C			more or less insoluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity</b>	1,81 mPa*s	20 °C			

**Oxidising properties**

No information available.

**Explosive properties**

No information available.

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**9.2. Other information**

Refer to technical data sheet.

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**! 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**

Reacts with strong acids and alkalis.

Reactions with oxidising agents.

**10.4. Conditions to avoid**

Heat, open flames, sparks

**10.5. Incompatible materials**

**Substances to avoid**

Reactions with strong acids and alkalis.

Reactions with oxidising agents.

**10.6. Hazardous decomposition products**

Concerning possible decomposition products see section 5.

**Thermal decomposition**

Remark No decomposition if used as directed.

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**! SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
<b>Skin irritation</b>	low irritant effect - not necessary to label			
<b>Eye irritation</b>	low irritant - no labeling duty			
<b>Skin sensitization</b>	sensitizing			

**! Aspiration hazard**

After swallowing and subsequent vomiting, aspiration into the lungs can occur, which can lead to chemical pneumonia or suffocation.

**! Experiences made from practice**

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.

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Inhalation can cause damage to the respiratory tract or lungs.  
The liquid splashed in the eyes may cause irritation and reversible damage.  
Often and prolonged skin contact may dry and defat the skin, which may lead to skin irritation and inflammation (dermatitis).

**Additional information**

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

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**! 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 is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

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**! 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. Must not be disposed together with household garbage.

**! Recommendations for packaging**

Disposal according to official regulations.

**General information**

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

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## SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	3295	3295	3295
<b>14.2. UN proper shipping name</b>	HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.	Hydrocarbons, liquid, n.o.s.
<b>14.3. Transport hazard class(es)</b>	3	3	3
<b>14.4. Packing group</b>	II	II	II
<b>14.5. Environmental hazards</b>	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  
Special provisions 640C  
Classification code F1

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## ! SECTION 15: Regulatory information

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

#### National regulations

#### Restriction of occupation

Observe employment restrictions for young people.  
Observe employment restrictions for mothers-to-be and nursing mothers.

**Water hazard class** 2 Manufacturer specifications hazardous to water

### 15.2. Chemical Safety Assessment

No information available.

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## ! 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!

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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: 1.1

**! Sources of key data used**

Data sheets of the suppliers.

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.