

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.06.2019

Version number 1

Revision: 08.01.2016

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

- **1.1 Product identifier**
- **Trade name: NOVEX 100 Universal Adhesive**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Solvent adhesives
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
NOVEX Praha s.r.o.  
Brunclíkova 1875/17  
162 00 Praha  
E-mail: novex@novex.cz  
<http://www.novex.cz>
- **Further information obtainable from:** novex@novex.cz
- **1.4 Emergency telephone number:** European emergency number: 112 (24h)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Sol. 1      H228 Flammable solid.



GHS08 health hazard

Repr. 2      H361 Suspected of damaging fertility or the unborn child.

STOT RE 2      H373 May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS07

Eye Irrit. 2      H319 Causes serious eye irritation.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
naphtha (petroleum), hydrotreated light
- **Hazard statements**  
H228 Flammable solid.

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H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture: consisting of the following components.

- **Dangerous components:**

CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	<15%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-xxxx	ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	<10%
CAS: 64742-49-0 EINECS: 265-151-9 Reg.nr.: 01-2119475133-43-0011	naphtha (petroleum), hydrotreated light ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	<10*%
CAS: 14808-60-7 EINECS: 238-878-4	quartz ⚠ STOT RE 1, H372	<2%
CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119555270-46-XXXX	2,6-di-tert-butyl-p-cresol ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.3%

- **Additional information:**

\*contains &lt;0,1 % mol. benzene

\* Nota H, P applies to petroleum classification

For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

Do not use mouth to mouth or mouth to nose resuscitation.

Take suitable precautions for rescue workers.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Wash with plenty of water or water and soap. In cases of sickness seek medical advice (show label if possible).

DO NOT use solvents or thinners.

- **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

If present, remove contact lenses.

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- **After swallowing:**  
Call for a doctor immediately.  
Do not induce vomiting.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**  
Carbon monoxide (CO).  
Carbon dioxide (CO<sub>2</sub>).  
Product during a fire will produce dense black smoke.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.  
Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Remove persons from danger area.  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers / surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).  
Avoid formation of flammable vapors in the air.  
At work do not eat, drink or smoke.  
Store in cool, dry place in tightly closed receptacles.  
Keep away from heat and direct sunlight.  
Ensure good ventilation / exhaust at the workplace.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.  
Fumes can combine with air to form an explosive mixture.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original receptacle.  
Store in a cool location.

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- Provide ventilation for receptacles.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**
  - Store in vertical position in closed original containers.
  - Protect from heat and direct sunlight.
  - Store at temperature from 5°C to 25°C.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

#### • 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

##### CAS: 67-64-1 acetone

WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
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##### CAS: 141-78-6 ethyl acetate

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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##### CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

WEL	Long-term value: 10 mg/m <sup>3</sup>
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#### • DNELs

##### CAS: 67-64-1 acetone

Oral	DNEL	62 mg/kg/day (General population, consumers)
Dermal	DNEL	50 mg/kg/day (General population, consumers) 186 mg/kg/day (Workers)
Inhalative	DNEL	200 mg/m <sup>3</sup> (General population, consumers) 1210 mg/m <sup>3</sup> (Workers)

##### CAS: 64742-49-0 naphtha (petroleum), hydrotreated light

Oral	DNEL	6 mg/kg/day (General population, consumers)
Dermal	DNEL	7 mg/kg/day (General population, consumers) 13 mg/kg/day (Workers)
Inhalative	DNEL	20 mg/m <sup>3</sup> (General population, consumers) 93 mg/m <sup>3</sup> (Workers)

##### CAS: 141-78-6 ethyl acetate

Dermal	DNEL	37 mg/kg/day (General population, consumers) 63 mg/kg/day (Workers)
Inhalative	DNEL	367 mg/m <sup>3</sup> (General population, consumers) 1468 mg/m <sup>3</sup> (Workers)

##### CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Oral	DNEL	0.25 mg/kg/day (General population, consumers)
Dermal	DNEL	0.25 mg/kg/day (General population, consumers) 0.5 mg/kg/day (Workers)
Inhalative	DNEL	0.86 mg/m <sup>3</sup> (General population, consumers) 0.86 mg/m <sup>3</sup> (Workers)

#### • PNECs

##### CAS: 67-64-1 acetone

(freshwater)	10.6 mg/l
(sea water)	1.06 mg/l
(freshwater sediments)	30.4 mg/kg
(sea water sediments)	30.4 mg/kg
(soil)	29.5 mg/kg

##### CAS: 141-78-6 ethyl acetate

(freshwater)	0.26 mg/l
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(freshwater sediments)	0.34 mg/kg
(soil)	0.22 mg/kg
<b>CAS: 128-37-0 2,6-di-tert-butyl-p-cresol</b>	
(freshwater)	0.000199 mg/l
(sea water)	0.00002 mg/l
(freshwater sediments)	0.0996 mg/kg
(sea water sediments)	0.00996 mg/kg
(soil)	0.04769 mg/kg

## 8.2 Exposure controls

### Personal protective equipment:

#### General protective and hygienic measures:

- Do not eat, drink, smoke or sniff while working.
- Keep away from foodstuffs, beverages and feed.
- Wash hands before breaks and at the end of work.
- Immediately remove all soiled and contaminated clothing.
- Do not eat or drink while working.
- Do not breathe vapours.

#### Respiratory protection:

- Use suitable respiratory protective device in case of insufficient ventilation.
- Filter AX

#### Protection of hands:



Protective gloves

EN 374

The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### Material of gloves

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.7$  mm.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

 $\geq 480$  min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection:



Safety glasses

EN 166

#### Body protection: Antistatic protective work clothing.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

##### Appearance:

**Form:**

Paste

**Colour:**

Beige

##### Odour:

Solvent-like

##### Odour threshold:

Not determined

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· pH-value:	Not applicable
· Change in condition	
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
· Flash point:	<60 °C
· Flammability (solid, gas):	Not determined
· Decomposition temperature:	Not determined
· Explosive properties:	Not determined
· Explosion limits:	
Lower:	Not determined
Upper:	Not determined
· Vapour pressure:	Not applicable
· Density:	1.17 ± 0.1 g/cm <sup>3</sup>
· Relative density	Not determined
· Vapour density	Not applicable
· Evaporation rate	Not applicable
· Solubility in / Miscibility with water:	Insoluble
· Partition coefficient: n-octanol/water:	Not determined
· Viscosity:	
Dynamic:	Not determined
Kinematic at 40 °C:	>20.5 mm <sup>2</sup> /s
· 9.2 Other information	No further relevant information available

## SECTION 10: Stability and reactivity

### · 10.1 Reactivity

No hazardous reactions if the regulations / notes for storage and handling of the product will be respected.

### · 10.2 Chemical stability

#### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

### · 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### · 10.4 Conditions to avoid

Avoid temperatures near or above the flash point. Do not heat closed containers.

Avoid direct sunlight and heat, as these may cause a risk of fire.

### · 10.5 Incompatible materials:

Strong acids and bases.

Strong oxidants.

### · 10.6 Hazardous decomposition products:

Ethanoic acid

Carbon monoxide (CO).

Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### · 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

**CAS: 64742-49-0 naphtha (petroleum), hydrotreated light**

Oral	LD50	>16750 mg/kg (rat)
Dermal	LD50	>3350 mg/kg (rabbit)
Inhalative	LC50/4h	>259354 mg/l (rat)

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<b>CAS: 141-78-6 ethyl acetate</b>		
Oral	LD50	5620 mg/kg (rat)
Dermal	LD50	>18000 mg/kg (rabbit)
<b>CAS: 67-64-1 acetone</b>		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	7400 mg/kg (rabbit)
Inhalative	LC50/4h	76 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Toxicokinetics, metabolism and distribution** No data available.
- **Acute effects (acute toxicity, irritation and corrosivity)** No data available.
- **Sensitisation** Based on available data, the classification criteria are not met.
- **Repeated dose toxicity**  
Prolonged exposure to vapors may cause neurotoxicity. Repeated or prolonged exposure may cause drying, cracking and chronic inflammation of the skin.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Suspected of damaging fertility or the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### • 12.1 Toxicity

#### • Aquatic toxicity:

<b>CAS: 64742-49-0 naphtha (petroleum), hydrotreated light</b>	
EC50	23.35 mg/l (daphnia)
LC50	13.37 mg/l (fish)
<b>CAS: 128-37-0 2,6-di-tert-butyl-p-cresol</b>	
EC50	0.61 mg/l (daphnia)
LC50	0.42 mg/l (algae)
<b>CAS: 67-64-1 acetone</b>	
EC50	10 mg/l (daphnia)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

GB

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## SECTION 13: Disposal considerations

### · 13.1 Waste treatment methods

#### · Recommendation

Dispose of in a safe manner in accordance with local / national regulations.

Do not allow to enter surface or ground water.

Assigning a code from the waste catalogue depends on the sector, in which the user operates, as well as on arrangements made between the waste generator and a competent environment protection department.

Substance/mixture as a waste compound brings hazardous properties HP: 3, 4, 5, 10, 14

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

### · 14.1 UN-Number

#### · ADR, IMDG, IATA

UN3175

### · 14.2 UN proper shipping name

#### · ADR

3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ACETONE, Naphtha (petroleum), hydrotreated light)

#### · IMDG, IATA

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ACETONE, naphtha (petroleum), hydrotreated light)

### · 14.3 Transport hazard class(es)

#### · ADR, IMDG, IATA



#### · Class

4.1 Flammable solids, self-reactive substances and solid desensitised explosives.

#### · Label

4.1

### · 14.4 Packing group

#### · ADR, IMDG, IATA

II

### · 14.5 Environmental hazards:

#### · Marine pollutant:

Harmful to aquatic life.

### · 14.6 Special precautions for user

Warning: Flammable solids, self-reactive substances and solid desensitised explosives.

#### · Danger code (Kemler):

40

#### · EMS Number:

F-A,S-I

#### · Stowage Category

B

### · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

#### · Transport/Additional information:

#### · ADR

#### · Limited quantities (LQ)

1 kg

#### · Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

#### · Transport category

2

#### · Tunnel restriction code

E

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<ul style="list-style-type: none"> <li>• <b>IMDG</b></li> <li>• <b>Limited quantities (LQ)</b></li> <li>• <b>Excepted quantities (EQ)</b></li> </ul>	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
<ul style="list-style-type: none"> <li>• <b>UN "Model Regulation":</b></li> </ul>	UN3175, SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ACETONE, Naphtha (petroleum), hydrotreated light), 4.1, II

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**  
None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
 H225 Highly flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 H361 Suspected of damaging fertility or the unborn child.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H373 May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.
- **Abbreviations and acronyms:**  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Sol. 1: Flammable solids – Category 1  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Repr. 2: Reproductive toxicity – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3