

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 04.03.2008

Revision: 06.02.2008

1 Identification of substance:

- **Product details:**

- **Trade name:** **SIGNAPUR**

- **Application of the substance / the preparation**
Hydrophobing agent/ water repellent
Coating material

- **Manufacturer/Supplier:**

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2 Hazards identification

- **Hazard designation:**



Xi Irritant
F Highly flammable

- **Information pertaining to particular dangers for man and environment**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Has a narcotizing effect.

R 11 Highly flammable.

R 36 Irritating to eyes.

R 67 Vapours may cause drowsiness and dizziness.

3 Composition/information on ingredients

- **Chemical characterization**

- **Description:** Silane-Derivate based on Perfluorpolyoxyalkane into solvent mixture

- **Dangerous components:**

CAS: 67-63-0	propan-2-ol	Xi, F; R 11-36-67	50-100%
EINECS: 200-661-7			
EC Number: 603-117-00-0			

- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information**

Take affected persons out of danger area and instruct to lie down.

Instantly remove any clothing soiled by the product.

- **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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- In case of unconsciousness bring patient into stable side position for transport.*
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**
Rinse the mouth with water immediately
Do not induce vomiting; instantly call for medical help.
- **Information for doctor** No particular measures are known - treat according to symptoms.
- **The following symptoms may occur:**
Headache
Dazed
Sickness
Unconsciousness
- **Danger**
Exercise caution in case of vomiting, risk of aspiration
Danger of pulmonary oedema.
Danger of pneumonia.
- **Treatment** If swallowed or in case of vomiting, danger of entering the lungs

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Can form explosive gas-air mixtures.
Formation of poisonous gases during heating or in fires.
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Keep people at a distance and stay on the windward side.
Wear protective clothing.
Avoid contact with eyes and skin.
Keep away from ignition sources
- **Measures for environmental protection:**
Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.
Explosive!
Inform respective authorities in case product reaches water or sewage system.
- **Measures for cleaning/collecting:**
take up with liquid-binding material (sand, kieselguhr).
Send for recovery or disposal in suitable containers.
Ensure adequate ventilation.
- **Additional information:**
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

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7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Keep away from heat and direct sunlight.
 - Use solvent-proof equipment.
 - Restrict the quantity stored in the work place.
 - Store in cool, dry place in tightly closed containers.
 - Open and handle container with care.
 - Ensure good ventilation/exhaustion at the workplace.
 - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
 - Take note of emission threshold.
 - Prevent formation of aerosols.
 - Keep eye irrigation utensils (bottle) ready for use at place of work.
- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
 - Protect from heat.
 - Fumes can combine with air to form an explosive mixture.
 - Flammable mixtures may be formed in empty containers.
- **Storage**
- **Requirements to be met by storerooms and containers:**
 - Store only in unopened original containers.
 - Provide solvent resistant, sealed floor.
 - Do not store the product at temperatures below 0 °C or above 30 °C
- **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
 - Do not store together with oxidizing or spontaneously flammable materials.
 - Store away from oxidizing agents.
- **Further information about storage conditions:**
 - Keep container tightly sealed.
 - Store in cool, dry conditions in well sealed containers.
 - Store container in a well ventilated position.
 - Protect from heat and direct sunlight.

8 Exposure controls and personal protection

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

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

67-63-0 propan-2-ol (50-100%)

WEL (Great Britain)	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
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- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and food.
 - Wash hands during breaks and at the end of the work.
 - Avoid contact with the eyes and skin.
 - The usual precautionary measures should be adhered to general rules for handling chemicals.
 - Take off immediately all contaminated clothing
 - Do not inhale gases / fumes / aerosols.

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· **Breathing equipment:**



Use breathing protection in case of insufficient ventilation.

Wear a respirator if an aerosol or mist forms.

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· **Recommended filter device for short term use:** Filter AX

· **Protection of hands:**



Solvent resistant gloves

Only use chemical-protective gloves with CE-labelling of category III.

Check protective gloves prior to each use for their proper condition.

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

Preventive skin protection by use of skin-protecting agents is recommended.

· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material: \geq Butyl 0.5 mm; NBR 0.35 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**

Value for the permeation: Level \geq 6

The determined penetration times according to EN 374 part III are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **As protection from splashes gloves made of the following materials are suitable:** Chloroprene rubber, CR

· **Not suitable are gloves made of the following materials:**

Strong gloves

Leather gloves

· **Eye protection:**



Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· **General Information**

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic

· **Change in condition**

Melting point/Melting range: Not determined
Boiling point/Boiling range: ca. 80 - 85°C

· **Flash point:** ca. 12°C

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· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
· Critical values for explosion:	
Lower:	2 Vol %
Upper:	12.7 Vol %
· Vapour pressure at 20°C:	ca. 43 hPa
· Density at 20°C	0.77 - 0.82 g/ml
· Solubility in / Miscibility with Water:	Partly soluble
· Solvent content:	
Organic solvents:	≥98 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** strong oxidizing agents
- **Dangerous reactions**
Forms explosive gas mixture with air
Used empty containers may contain product gases which form explosive mixtures with air
- **Dangerous products of decomposition:**
none, if stored and handled correctly.
in the event of fire:
Carbon monoxide and carbon dioxide
Fluorine compounds

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

67-63-0 propan-2-ol

Oral	LD50	3600 mg/kg (Mouse) 6410 mg/kg (rab) 4570 mg/kg (rat)
Dermal	LD50	13400 mg/kg (rab)
Inhalative	LC50/4 h	30 mg/l (rat) 30 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:**
in case of permanent exposure
removes skin oils
irritative effect possible
- **on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
According to documentation, isopropanol has an irritating effect on mucous membranes, a mildly irritating effect on the skin, removes skin oils and has a narcotic effect.
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

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Irritant

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12 Ecological information:

- **Information about elimination (persistence and degradability):** The solvent is biodegradable
- **Ecotoxicological effects:** Not determined

- **Aquatic toxicity:**

67-63-0 propan-2-ol

EC50	(48h) 13299 mg/l (<i>Daphnia magna</i>)
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EC50 (72h)	> 1000 mg/l (<i>Alge</i>)
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LC50 (96h)	9640 mg/l (<i>Pimephales promelas</i>)
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- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation** Must be specially treated under adherence to official regulations.

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
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08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
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08 04 99	wastes not otherwise specified
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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID-GGVS/E Class:** 3 (F1) Flammable liquids.
- **Kemler Number:** 33
- **UN-Number:** 1219
- **Packaging group:** II
- **Label:** 3
- **Designation of goods:** 1219 ISOPROPANOL (ISOPROPYL ALCOHOL)
- **Limited quantities (LQ):** LQ4
- **Transport category:** 2
- **Tunnel restriction code:** D1E

- **Maritime transport IMDG:**



- **IMDG Class:** 3

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- **UN Number:** 1219
- **Label** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Correct technical name:** ISOPROPANOL (ISOPROPYL ALCOHOL)

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1219
- **Label** 3
- **Packaging group:** II
- **Correct technical name:** ISOPROPANOL (ISOPROPYL ALCOHOL)

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

- **Code letter and hazard designation of product:**



Xi Irritant
F Highly flammable

- **Risk phrases:**
11 Highly flammable.
36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.
- **Safety phrases:**
7/9 Keep container tightly closed and in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
33 Take precautionary measures against static discharges.
60 This material and its container must be disposed of as hazardous waste.

- **National regulations**

- **Technical instructions (air):**

Class	Share in %
NK	50-100

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
11 Highly flammable.

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*36 Irritating to eyes.**67 Vapours may cause drowsiness and dizziness.***· Department issuing data specification sheet:***IGG-AD Ingenieurbüro für Gefahrstoff- und Gefahrgutberatung**Bismarckstraße 10**D-68623 Lampertheim**Fax: 0049-(0)6206-58422 <http://www.igg-ad.de> info@igg-ad.de***· Contact:***PURRATIO AG**Max Kochlik**Richard Reichmann*

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