

# SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 06. 02. 2018

Product code: -

Version: 1.0

Date of revision: -

Replaced version from: -

Page: 1 z 11

Trade Name: **GENTOO PART B**

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

### 1.1 Product identifier

Trade Name

**GENTOO PART B**

Mixture description

An aqueous solution of alcohols.

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

Identified uses

Coating material. This product is one part of a two part product. Read and understand the hazard information on the SDS for Part A before using this product.

Uses advised against

Only for identified uses.

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

**NetDesign, s.r.o.**

Kosmova 342/10

460 14 Liberec 13

Czech Republic

telephone: +420 608 514 272

e-mail address for a competent person responsible for the SDS: [netdesign@netdesign.cz](mailto:netdesign@netdesign.cz)

### 1.4 Emergency telephone number

112 (General emergency phone), 998 (fire brigade), 999 (ambulance service).

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The mixture **is classified as dangerous** according to regulation 1272/2008/EC.

Classification according to 1272/2008/EC **Flam. Liq. 2; H225**  
**Eye Dam. 1; H318**  
**STOT SE 3; H336**

Full text of classifications and H-phrases: see section 16.

**The most important adverse physicochemical, human health and environmental effects**

Highly flammable liquid and vapour. Causes serious eye damage. May cause drowsiness or dizziness.

### 2.2 Label elements

hazard pictograms



signal word

Danger

components of the mixture to be placed on the label

Contains propan-2-ol and propan-1-ol.

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## *hazard statements*

H225 - Highly flammable liquid and vapour.

H318 - Causes serious eye damage.

H336 - May cause drowsiness or dizziness.

## *precautionary statements*

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

P233 - Keep container tightly closed.

P261 - Avoid breathing mist/vapours/spray.

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

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

P310 - Immediately call a POISON CENTER/doctor.

P370+P378 - In case of fire: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide to extinguish.

P501 - Dispose of contents/container to in accordance with local regulations.

## *supplemental hazard information*

Mandatory additional information is not required according to CLP regulation.

## **2.3 Other hazards**

Mixture or its components are not classified as PBT or vPvB, not the date of issue of the safety data sheet kept on the candidate list for Annex XIV of the REACH Regulation.

## **SECTION 3: Composition/information on ingredients**

### **3.2 Mixtures**

#### **3.2.1 Components of a mixture classified as hazardous**

<b>Chemical identity</b>	<b>CAS Number EC Number Index Number</b>	<b>Registration Number</b>	<b>Content (wt. %)</b>	<b>Classification 1272/2008/EC</b>
Propan-2-ol; Isopropyl alcohol; Isopropanol	67-63-0 200-661-7 603-117-00-0	01-2119457558- 25-XXXX	20 - 75	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Propan-1-ol; n-Propanol	71-23-8 200-746-9 603-003-00-0	01-2119486761- 29-XXXX	20 - 50	Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336

## **SECTION 4: First aid measures**

In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. An unconscious person never give anything.

### **4.1 Description of first aid measures**

#### **Inhalation**

Interrupt the exposure, transfer the person to the fresh air. In case of persistent nausea, seek medical advice.

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## ***Skin contact***

Remove contaminated clothing, shoes, and wash thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.

## ***Eye contact***

Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. Call physician immediately.

## ***Ingestion***

Rinse your mouth and then drink plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice.

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

Causes severe eye irritation and possible damage. May cause mild skin irritation. Inhalation of mists cause upper respiratory tract irritation and drowsiness or dizziness. Ingestion may cause gastrointestinal distress. Ingesting large amounts may be harmful.

## ***4.3 Indication of any immediate medical attention and special treatment needed***

Treat symptomatically and supportively.

## **SECTION 5: Firefighting measures**

### ***5.1 Extinguishing media***

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

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### ***Extinguishing media which shall not be used for safety reasons***

Solid streams of water may be ineffective.

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

Fire water and the rest of the product must be contained and prevented from being discharged to any waterway, sewer or drain. Collect it separately and dispose of safely in accordance with applicable laws and local regulations.

In case of fires, hazardous combustion gases are formed: carbon oxides and products of incomplete combustion.

### ***5.3 Advice for firefighters***

Highly flammable liquid and vapor. Vapors may accumulate in confined areas and present a fire or explosion hazard. Vapors may be heavier than air and travel along surfaces to remote ignition sources and flash back.

Stop further leakage of product if possible. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can't be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

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

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

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. Eliminate all sources of ignition.

### ***6.2 Environmental precautions***

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Prevent further leakage or spillage if safe to do so. Do not let the product enter drains. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

## 6.3 Methods and material for containment and cleaning up

According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermikulit, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal.

If the packaging is damaged, move the contents to the new, undamaged packaging and label them again.

## 6.4 Reference to other sections

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provide good ventilation to prevent the formation of vapour and aerosol. Avoid contact with skin and eyes. Do not use dirty clothes. After work, rinse thoroughly with warm water and soap. Use a protective cream.

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

Store only in the original container. Protect containers from physical damage. Store away from strong oxidizers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

### 7.3 Specific end use(s)

See sections 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 8.1.1 Exposure limit value

EU

Not are determined in EU

#### 8.1.2 Biological limit values

Not are determined in EU

#### 8.1.3 DNEL and PNEC values

Propan-2-ol

CAS: 67-63-0

### DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	500 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	888 mg/kg/day
General population	Inhalation	Systemic effect	Long term	89 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	319 mg/kg/day
General population	Oral	Systemic effect	Long term	26 mg/kg/day

### PNEC

Fresh water	Marine water	Intermittent releases	STP	Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
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140.9 mg/l	140.9 mg/l	140.9 mg/l	2251 mg/l	552 mg/kg	552 mg/kg	not given	28 mg/kg	160 mg/kg food
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**Propan-1-ol**

CAS: 71-23-8

## DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	268 mg/m <sup>3</sup>
Workers	Inhalation	Systemic effect	Acute/short term	1 723 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	136 mg/kg/day
General population	Inhalation	Systemic effect	Long term	80 mg/m <sup>3</sup>
General population	Inhalation	Systemic effect	Acute/short term	1 036 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	81 mg/kg/day
General population	Oral	Systemic effect	Long term	61 mg/kg/day

## PNEC

Fresh water	Marine water	Intermittent releases	STP	Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
10 mg/l	1 mg/l	10 mg/l	96 mg/l	22.8 mg/kg	2.28 mg/kg	not given	2.2 mg/kg	not given

## 8.2 Exposure controls

### 8.2.1 Exposure reduction (technical measures)

Use only in well-ventilated areas.

Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.

### 8.2.2 Individual protection measures, such as personal protective equipment

*Respiratory protection*

Not necessary in case of compliance concentration limits (if they were exceeded, use a respirator). In the event of an accident or a fire use self-contained breathing apparatus.

*Hand protection*

Chemically resistant protective gloves.

Material:

polyvinylchloride, penetration time: > 480 min., glove thickness: 0.35 mm

*Eye/face protection*

Wear safety goggles or shield.

*Skin protection*

Suitable protective working clothing and footwear.

Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream.

### 8.2.3 Environmental exposure reduction

Uncontrolled release of the substance/formulation into environment is to be avoided. Observe the emission limits.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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<b>Appearance</b> (at 20 C)	liquid, colorless
<b>Odour</b>	alcoholic
<b>Odour threshold</b>	not determined
<b>pH</b> (at 20 C)	4
<b>Melting point/freezing point</b>	not determined
<b>Boiling point</b> (range)	83 C
<b>Flash point</b>	12 C
<b>Evaporation rate</b>	not determined
<b>Flammability</b>	not determined
<b>Explosive limits</b>	
<b>lower</b> (% vol.)	1 vol.%
<b>upper</b> (% vol.)	14 vol.%
<b>Vapour pressure</b> (at 20 C)	59 hPa
<b>Vapour density</b>	not determined
<b>Relative density</b>	0.812 (water = 1)
<b>Solubility in water</b> (at 20 C)	soluble
<b>Solubility in organic solvents:</b>	not determined
<b>Partition coefficient: n-octanol/water</b>	not determined
<b>Auto-ignition temperature</b>	399 C
<b>Decomposition temperature</b>	not determined
<b>Viscosity</b>	not determined
<b>Explosive properties</b>	is not classified as explosive
<b>Oxidising properties</b>	is not classified as an oxidant

## 9.2 Other information

VOC 4.28 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The mixture is stable under normal conditions of use.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

None known.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

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Burning releases carbon oxides and products of incomplete combustion.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### **Acute toxicity**

- *LD<sub>50</sub> oral, rat (mg/kg)*

Data for the mixture are not available

5 840 - propan-2-ol

ca. 8 000 - propan-1-ol

- *LD<sub>50</sub> skin, rat or rabbit (mg/kg)*

Data for the mixture are not available

16.4 ml/kg - propan-2-ol (12 792 mg/kg at density 0.78 g/cm<sup>3</sup>, rabbit)

4 032 - propan-1-ol (rabbit, male)

- *LC<sub>50</sub> inhalation, rat (mg/l, 4 h)*

Data for the mixture are not available

> 10 000 ppm - propan-2-ol (vapour, 6 h)

> 33.8 - propan-1-ol (vapour)

#### **Skin corrosion/irritation**

A slight effect, the classification criteria are not fulfilled  
not irritant - mean erythema score = 0 and oedema = 0 -  
propan-2-ol (rabbit, OECD 404)

not irritant- mean erythema score = 0.17 (exposure for  
15 minutes, fully reversible after 48 hours), 0.33  
(exposure for 20 hours, fully reversible after 8 days) and  
oedema = 0 - propan-1-ol (rabbit, 72 hours, OECD 404)

#### **Serious eye damage/irritation**

Causes severe eye damage.

classified as irritant for the eyes, total score = 1.89 -  
propan-2-ol (rabbit, 72 hr., OECD 405).

classified as seriously damaging the eyes, the mean  
score of corneal opacity = 1.7 (not fully reversible), iritis =  
1 (fully reversible after 10 days), conjunctival redness =  
1.5 (not fully reversible), conjunctival edema = 1.5 (not  
fully reversible) - propan-1-ol (rabbit, 72 h, OECD 405).

#### **Respiratory or skin sensitisation**

Not containing these substances (or less than the  
classification limit)

not skin sensitising - propan-2-ol (guinea pig, OECD  
406)

#### **Carcinogenicity**

Not containing these substances (or less than the  
classification limit)

NOAEL = 5000 ppm - propan-2-ol (testicular tumors, rat,  
male, vapour, OECD 451)

#### **Germ cell mutagenicity**

Not containing these substances (or less than the  
classification limit)

negative - propan-2-ol (OECD 476, OECD 471)

negative - propan-1-ol (OECD 471, OECD 473, OECD  
476)

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## **Reproductive toxicity**

Not containing these substances (or less than the classification limit)

NOAEL = 853 mg/kg/day - propan-2-ol (rat, OECD 415)

## **Specific target organ toxicity – single exposure**

May cause drowsiness or dizziness.

## **Specific target organ toxicity – repeated exposure**

Not classified

toxic effect at a concentration greater than 5 000 ppm - propan-2-ol (rat, vapour, kidney, 98 d, OECD 413)

NOAEC = 8000 mg/m<sup>3</sup> - propan-1-ol (rat, vapour, OECD 413)

## **Aspiration hazard**

Not classified

## **Other information**

See section 2 and 4.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Fish**

Data for the mixture are not available

LC<sub>50</sub>, 96 hrs., Pimephales promelas: 9 640 mg/l - propan-2-ol

LC<sub>50</sub>, 96 hrs., Pimephales promelas: 4 555 mg/l - propan-1-ol

#### **Daphnia**

Data for the mixture are not available

EC<sub>50</sub>, 48 hrs., Daphnia Magna: > 10 000 mg/l - propan-2-ol

logNOEC, 16 d., Daphnia Magna: 3.37 - propan-2-ol

EC<sub>50</sub>, 48 hrs., Daphnia Magna: 3 644 mg/l - propan-1-ol (mobility)

NOEC, 21 d., Daphnia Magna: > 100 mg/l - propan-1-ol (reproduction)

#### **Algae**

Data for the mixture are not available

threshold toxicity, 7 d., Scenedesmus quadricauda: 1 800 mg/l - propan-2-ol

EC<sub>50</sub>, 48 hrs., Pseudokirchneriella subcapitata: 9 170 mg/l - propan-1-ol (growth rate)

NOEC, 48 hrs., Chlorella pyrenoidosa: 0.005 mg/l - propan-1-ol (growth rate)

### 12.2 Persistence and degradability

Data for the mixture are not available

readily biodegradable: 53 % after 5 days - propan-2-ol (EU method C.5 and C.6)

BOD<sub>5</sub> / COD ≥ 0.5 - propan-2-ol

BOD - Biological Oxygen Demand

COD - Chemical Oxygen Demand

readily biodegradable: 75 % after 28 days - propan-1-ol (O<sub>2</sub> consumption)

### 12.3 Bioaccumulative potential

Data for the mixture are not available

log Pow = 0.05 - propan-2-ol (25 C)

### 12.4 Mobility in soil

Data for the mixture are not available

Koc = 4.291 - propan-1-ol

### 12.5 Results of PBT and vPvB assessment



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Mixture or its components are not classified as a PBT or a vPvB.

## 12.6 Other adverse effects

no data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### **Disposal methods of the substance or mixture and the contaminated packaging**

Delete according to the applicable European and local regulations (eg. in a hazardous waste incinerator). Never remove flushing into sewer! Do not contaminate ponds or ditches with chemical or used container. Residual amounts and solutions to a licensed disposal company.

For classifying the waste and the removal of waste producer responsibility.

Possible waste code 08 01 11\* - waste paint and varnish containing organic solvents or other dangerous substances

#### **Physical/chemical properties that may affect waste treatment options**

Flammability.

#### **Special precautions recommended for waste management**

None known.

#### **Waste legislation**

Directive 2008/98/EC

## SECTION 14: Transport information

### 14.1 UN number

1263

### 14.2 UN proper shipping name

- ADR/RID/IMDG/IATA

PAINT (Propan-2-ol, Propan-1-ol)

### 14.3 Transport hazard class(es)

3

### 14.4 Packing group

II

### 14.5 Environmental hazards

not given

### 14.6 Special precautions for user

not given

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

not available

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## Marking according to ADR



### ADR/RID

- classification code	F1
- labels	3
- hazard identification code	33
- tunnel restriction code	D/E (ADR), - (RID)

### IMDG

- Emergency Schedules (EmS)	F-E/S-E
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## SECTION 15: Regulatory information

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

Regulation No. 1907/2006/ES, REACH.

Regulation No. 1272/2008/ES, CLP.

### 15.2 Chemical safety assessment

No data available.

## SECTION 16: Other information

### Reason for alteration

First edition.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Flam. Liq. 2	Flammable liquid, cat. 2
STOT SE 3	Specific target organ toxicity — single exposure, cat. 3
PBT	Persistent, bioaccumulative, toxic chemical
vPvB	Very persistent and very bioaccumulative chemical
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
CLP	Regulation No. 1272/2008/EC
REACH	Regulation No. 1907/2006/EC
ADR	Accord Dangereuses Route
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods
ICAO/IATA	International Air Transport Association
VOC	Volatile organic compound

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## **Sources of key data used to compile the Safety Data Sheet**

European legislation, chemical databases and tables, tests, registration dossier of compounds.

## **List of H- and P- phrases**

H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P370+P378	In case of fire: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide to extinguish.
P501	Dispose of contents/container to in accordance with local national regulation.

## **Training advice**

According to MSDS.

## **Relevant information for classification**

According to additional method of CLP. Classification according to data from the manufacturer. The mixture does not have a harmonized classification in the EU. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

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