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

1.1. Product identifier

Name of product Seam Sealer
Art-Nr 02.1704.00

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended intended purpose(s)
sealant

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 030 192 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

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Prevention

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

P243 Take precautionary measures against static discharge.

P261 Avoid inhalation of vapors / spray.

P271 Use only outdoors or in a well-ventilated area.

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

Response

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal

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

Hazardous ingredients for labeling

propan-2-ol

Additional information

Special rules on packaging

Touchable warning sign (EN/ISO 11683).

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	60 - 80	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336

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 accident or if you feel unwell seek medical advice immediately (if possible show directions for use or safety data sheet).

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.

In case of irritation consult an ophthalmologist.

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

Seam Sealer

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Vapors can cover long distances along the ground and ignite.

Can form explosive vapor-air mixtures.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Wear full protective clothing.

Additional information

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.

Warn persons who are present in the danger zone.

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

Take up residues with absorbent material (e.g. sand, general-purpose binder).

Flush away residues with water.

Take up mechanically and send for disposal.

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.
Avoid contact with skin and eyes.

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.
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

Do not store with alkalis.
Do not store together with acids.
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.

Storage group 3

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Seam Sealer**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" der Firma KCL 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

safety goggles with side protection

Other protection measures

protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

liquid

Colour

colourless

Odour

of isopropanol

Odour threshold

No information available.

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	ca. 7	20			
boiling point	82,4 °C		1013 hPa		Data refer to the main component.
melting point	-89,5 °C				Data refer to the main component.
Flash point	12 °C				
Vapourisation rate	No information available.				
Flammable (solid)	No information available.				
Flammability (gas)	No information available.				

Seam Sealer

	Value	Temperature	at	Method	Remark	
Ignition temperature	425 °C			DIN 51794		
Self ignition temperature	No information available.					
Lower explosion limit	2 Vol-%					
Upper explosion limit	13,4 Vol-%					
Vapour pressure	43 mbar	20 °C			Data refer to the main component.	
Relative density	No information available.					
Vapour density	2,07					
Solubility in water						soluble
Solubility/other	No information available.					
Partition coefficient n-octanol/water (log P O/W)	0,05			OECD 107		
Decomposition temperature	No information available.					
Viscosity dynamic	2,2 mPa*s	20 °C				
Oxidising properties	No information available.					
Explosive properties	Could form explosive mixtures with air.					
9.2. Other information	Refer to technical data sheet.					

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.

Seam Sealer**10.4. Conditions to avoid**

Heat, open flames, sparks

10.5. Incompatible materials**Materials to avoid**

aldehydes
Alkali (lye)
Alkali metals
Aluminium
Amines
Gummi
Light metal
various plastics
Oil
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
LD50 acute oral	> 5000 mg/kg	rat		Information concerns to main component.
LD50 acute dermal	> 5000 mg/kg	rabbit		Information concerns to main component.
LC50 acute inhalation	46,5 mg/l (4 h)	rat		Information concerns to main component.
Irritability skin	Prolonged skin contact may defat the skin and produce dermatitis.			
Irritability eye	irritant			
Skin sensitization	non-sensitizing			

Experiences made from practice

May be absorbed through 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.

Repeated or prolonged contact with the product leads to degreasing of the skin and may cause non-allergic skin problems (contact dermatitis) and / or absorption of harmful substances.

Seam Sealer

Ingestion or inhalation of vapors may irritate the mucous membranes of the respiratory tract.
After Resorption 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****Ecotoxicological effects**

	Value	Species	Method	Validation
Fish	LC50 1400 mg/l (96 h)	Lepomis macrochirus		Information concerns to main component.
Daphnia	EC50 13299 mg/l (48 h)	Daphnia magna		Information concerns to main component.
Algae	IC50 > 1000 mg/l (72 h)	Desmodesmus subspicatus		Information concerns to main component.

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**

Do not allow uncontrolled leakage of product into the environment.

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.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

Recommended cleansing agent

Water, if necessary with cleansing agents.

Seam Sealer

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	1866	1866	1866
14.2. UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION	Resin solution
14.3. Transport hazard class(es)	3	3	3
14.4. Packing group	III	III	III
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

Special provisions 640E

Classification code F1

Transport/further information

Vor Wärme schützen.

SECTION 15: Regulatory information

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

National regulations

Water hazard class 1 Manufacturer specifications slightly hazardous to water

Decree for case of interference/remarks Quantity limits according to Hazardous Incident Ordinance must be observed.

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.

Sources of key data used

Data sheets of the suppliers.

European Chemicals Agency (ECHA)

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.