

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

1.1. Product identifier

Trade name/designation:

ALBILEX-NanoRain

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

Use of the substance/mixture:

Industrial uses

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

ALBILEX GmbH & Co. KG

Achtzehnmorgenweg 3

61250 Usingen

Telephone: +49-6081-10400

Telefax: +49-6081-104040

E-mail: info@albilex.de

Website: www.albilex.de

1.4. Emergency telephone number

Notfallauskunft: The Emergency telephone is available during Europaen time zone office time between 8 am and 5 pm on working days., +49-6081-10400 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation method.
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	Calculation method.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark

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.

Revision date: 24-Feb-2015 Print date: 14-Jul-2015

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary statements 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.

Precautionary statements Disposal

P501	Dispose of contents/container to
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2.3. Other hazards

Adverse human health effects and symptoms:

Gases/vapours, combustible




SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Mixture of mentioned compounds with non-hazardous additions

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Concentration
CAS No.: 67-63-0 EC No.: 200-661-7 REACH No.: 01-2119457558-25-XXXX	propan-2-ol STOT SE 3, Flam. Liq. 2, Eye Irrit. 2   Danger H225-H319-H336	> 80 %
CAS No.: 7664-93-9 EC No.: 231-639-5	sulphuric acid Skin Corr. 1A  Danger H314	< 1 %

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Move victim out of danger zone.

Following inhalation:

Remove casualty to fresh air and keep warm and at rest.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

IF ON CLOTHING: Take off immediately all contaminated clothing.

After eye contact:

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist. Protect uninjured eye.

After ingestion:

Let water be drunken in little sips (dilution effect).

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

Drowsiness, Headache, Dizziness, Nausea

4.3. Indication of any immediate medical attention and special treatment needed

After ingestion Let water be drunken in little sips (dilution effect).

Revision date: 24-Feb-2015 Print date: 14-Jul-2015

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:Carbon dioxide (CO₂), Extinguishing powder Water spray**Unsuitable extinguishing media:**

Full water jet

5.2. Special hazards arising from the substance or mixture

In the surrounding areas can incinerate the product after boiling the alcohol component.

Hazardous combustion products:

Carbon monoxide.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety. Wear personal protection equipment.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Pump away bigger amounts. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Wash with plenty of water.

6.4. Reference to other sections

No data available

6.5. Additional information

Dispose of waste according to applicable legislation.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures**Advices on safe handling:**

Wear personal protection equipment. Provide adequate ventilation as well as local exhaust at critical locations. Vapours are heavier than air and will spread at floor level. Take precautionary measures against static discharges.

Fire prevent measures:

Keep away from sources of ignition. - No smoking. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Suitable material for Container: Polyethylene +Polypropylen

7.3. Specific end use(s)

Recommendation:

No data available

Revision date: 24-Feb-2015 Print date: 14-Jul-2015

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ remark
TRGS 900 (DE)	propan-2-ol CAS No.: 67-63-0	① 200 ppm (500 mg/m ³) ② 400 ppm (1,000 mg/m ³)
IOELV (EU)	sulphuric acid CAS No.: 7664-93-9	① 0.05 mg/m ³
TRGS 900 (DE)	sulphuric acid CAS No.: 7664-93-9	① 0.1 mg/m ³ ② 0.1 mg/m ³ ⑤ (einatembare Fraktion)

8.1.2. biological limit values

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Sample time ④ remark
TRGS 903 (DE)	propan-2-ol CAS No.: 67-63-0	25 mg/L	① Aceton ② Blut ③ Expositionsende bzw. Schichtende
TRGS 903 (DE)	propan-2-ol CAS No.: 67-63-0	25 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Tightly sealed safety glasses.

Skin protection:

Wear suitable gloves. DIN EN 374
Gummi, PVC

Respiratory protection:

Suitable respiratory protection apparatus: B2

Other protection measures:

Protective clothing: Chemical resistant safety shoes Chemical protection clothing
 General health and safety measures: When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid

Colour: colourless

Odour: Alcohol

Revision date: 24-Feb-2015 Print date: 14-Jul-2015

Safety relevant basis data

parameter		at °C	Method	remark
pH	<i>not determined</i>	20 °C		
Melting point/freezing point	-89.5 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	82 °C			pressure: 1013 mbar
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	13 °C			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	425 °C			
Upper/lower flammability or explosive limits	2 - 12 Vol-%			The product is not: Explosive; In use, may form flammable/explosive vapour-air mixture.
Vapour pressure	43 hPa	20 °C		
Vapour density	<i>not determined</i>			
Density	0.785 g/cm ³	20 °C		
Bulk density	<i>not determined</i>			
Water solubility (g/L)				partially soluble
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>	20 °C		
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Materials to avoid Acid Oxidising agent

10.6. Hazardous decomposition products

No decomposition on normal use

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

CAS No.	Substance name	Toxicological information
67-63-0	propan-2-ol	LD₅₀ oral: 6,000 mg/kg (Hund)

Skin corrosion/irritation:

Irritant effect on the skin: Not an irritant.

Irritant effect on the eye: mild irritant.

Respiratory or skin sensitisation:

To date, no known

Additional information:

Other information: Vapours may cause drowsiness and dizziness.

Revision date: 24-Feb-2015 Print date: 14-Jul-2015

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

Toxic to aquatic organisms. (Concentrate)

Effects in sewage plants:

After neutralization all organic components are readily biodegradable. \

12.2. Persistence and degradability

Additional information:

Further ecological information: Product is biodegradable. after sufficient dilution

12.3. Bioaccumulative potential

Accumulation / Evaluation:

Additional information: No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
67-63-0	propan-2-ol	—

No data available

12.6. Other adverse effects

Further ecological information: No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

Waste treatment options





Appropriate disposal / Package:

Wash with water and give to pastic recycling.

13.2. Additional information

No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
1219	1219	1219	1219
14.2. UN proper shipping name			
ISOPROPANOL (ISOPROPYL ALCOHOL), Gemisch	ISOPROPANOL (ISOPROPYL ALCOHOL), mixture	ISOPROPANOL (ISOPROPYL ALCOHOL), mixture	ISOPROPANOL (ISOPROPYL ALCOHOL), mixture
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
II		II	II
14.5. Environmental hazards			
No	-	-	-

Revision date: 24-Feb-2015 Print date: 14-Jul-2015

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.6. Special precautions for user			
Special provisions: Limited quantity (LQ): 1L Hazard identification number (Kemler No.): 3 Classification code: F1 tunnel restriction code: D/E remark:	Special provisions: Limited quantity (LQ): Classification code: F1 remark:	Special provisions: Limited quantity (LQ): EmS-No.: F-E; S-D remark:	Special provisions: Limited quantity (LQ): remark:

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

Additional information:

Keep away from food, drink and animal feedingstuffs.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU legislation**

No data available

15.1.2. National regulations **[DE] National regulations****Technische Anleitung Luft (TA-Luft)****Klasse 1:**

III

Anteil 1:

3 %

Klasse 2:

NK

Anteil 2:

80 %

Water hazard class (WGK)**WGK:**

1 - schwach wassergefährdend

Other regulations, restrictions and prohibition regulations

Merkblatt BG Chemie M 004

15.2. Chemical Safety Assessment

No data available

15.3. Additional information

No data available

SECTION 16: Other information**16.1. Indication of changes**

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

Revision date: 24-Feb-2015 Print date: 14-Jul-2015

16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

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Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation method.
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	Calculation method.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

16.6. Training advice

No data available

16.7. Additional information

The data presented here correspond to the present state of our knowledge and experience and are intended to describe our product with respect to possible safety demands. We imply with this however no guarantee of properties or description of qualities.