

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Contact Adhesive 281

Product no.

281

REACH registration number

Not applicable

Other means of identification

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

Relevant identified uses of the substance or mixture

Contact gluing

Uses advised against

-

The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

Dana Lim A/S
Københavnsvej 220
DK-4600 Køge
Denmark
phone: +45 56 64 00 70
fax: +45 56 64 00 90

Contact person

Product Safety Department

E-mail

info@danalim.dk

SDS date

23-01-2014

SDS Version

4.0

1.4. Emergency telephone number

Use your national or local emergency number
See section 4 "First aid measures"

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2, STOT SE 3, Flam. Liq. 2 // EUH066, H411, H336, H319, H315, H225

See full text of H/R-phrases in section 2.2.

DPD/DSD Classification

Highly flammable. (F). Harmful. (Xn). Dangerous for the environment. (N).
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.(R51/53).
Irritating to eyes and skin.(R36/38). Harmful by inhalation and in contact with skin.(R20/21). Highly flammable.(R11).

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger!

Hazard statement(s)

- Highly flammable liquid and vapour. (H225)
- Causes skin irritation. (H315)
- Causes serious eye irritation. (H319)
- May cause drowsiness or dizziness. (H336)
- Toxic to aquatic life with long lasting effects. (H411)

Identity of the substances primarily responsible for the major health hazards

Naphtha (petroleum), hydrotreated light, ethyl acetate

Safety statement(s)	General	Keep out of reach of children. (P102) If medical advice is needed, have product container or label at hand. (P101)
	Prevention	Use only outdoors or in a well-ventilated area. (P271) Keep away from heat/sparks/open flames/hot surfaces. — No smoking. (P210)
	Response	-
	Storage	Store in a well-ventilated place. Keep container tightly closed. (P403+P233)
	Disposal	Dispose of contents/container to an approved waste disposal plant. (P501)

2.3. Other hazards

This product contains an organic solvent. Damages on the nerves system and inner organs as the liver and kidney can occur, when repeatedly exposure to organic solvents.

Additional labelling

Contains Rosin. May produce an allergic reaction. Repeated exposure may cause skin dryness or cracking. (EUH066)

Additional warnings

Tactile warning.

VOC

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SECTION 3: Composition/information on ingredients

3.1/3.2. Substances

NAME:	ethyl acetate
IDENTIFICATION NOS.:	CAS-no: 141-78-6 EC-no: 205-500-4 Index-no: 607-022-00-5
CONTENT:	25-40%
DSD CLASSIFICATION:	F; R11 Xi; R36 R66 R67
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Eye Irrit. 2 H225, H319, H336, EUH066
NOTE:	S
NAME:	xylene
IDENTIFICATION NOS.:	CAS-no: 1330-20-7 EC-no: 215-535-7 Index-no: 601-022-00-9
CONTENT:	15-25%
DSD CLASSIFICATION:	R10 Xn; R20/21 Xi; R38
CLP CLASSIFICATION:	Flam. Liq. 3, Acute tox. 4, Skin Irrit. 2 H226, H312, H315, H332
NOTE:	S
NAME:	Naphtha (petroleum), hydrotreated light
IDENTIFICATION NOS.:	CAS-no: 64742-49-0 EC-no: 265-151-9 REACH-no: 01-2119475515-33-0000 Index-no: 649-328-00-1
CONTENT:	15-25%
DSD CLASSIFICATION:	F;R11 Xn;R65 Xi;R38 N;R51/53 R67
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Skin Irrit. 2, Asp. Tox. 1, Aquatic Chronic 2 H225, H304, H315, H336, H411

According to EC-Regulation 1907/2006 (REACH)

NAME: ethylbenzene
 IDENTIFICATION NOS.: CAS-no: 100-41-4 EC-no: 202-849-4 Index-no: 601-023-00-4
 CONTENT: 5-15%
 DSD CLASSIFICATION: F; R11 Xn; R20
 CLP CLASSIFICATION: Flam. Liq. 2, Acute tox. 4
 H225, H332
 NOTE: S

NAME: zinc oxide
 IDENTIFICATION NOS.: CAS-no: 1314-13-2 EC-no: 215-222-5 Index-no: 030-013-00-7
 CONTENT: <1%
 DSD CLASSIFICATION: N;R50/53
 CLP CLASSIFICATION: Aquatic Acute 1, Aquatic Chronic 1
 H400, H410

NAME: Rosin
 IDENTIFICATION NOS.: CAS-no: 8050-09-7 EC-no: 232-475-7 Index-no: 650-015-00-7
 CONTENT: <1%
 DSD CLASSIFICATION: Xi;R43
 CLP CLASSIFICATION: Skin Sens. 1
 H317

(*) See full text of H/R-phrases in chapter 16. Occupational limits are listed in section 8, if these are available.
 S = Organic solvent

Other informations

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.
 Contact a physician, if there is doubt about the injured person's condition, or the symptoms continuous.
 Never give the unconscious person water or alike.

Inhalation

Place the injured person in fresh air. Make sure to watch the injured person. Prevent chock by keeping the injured person warm and calm. If the person stops breathing, give mouth-to-mouth. If unconscious, put the injured person into the natal-position. Call for an ambulance.

Skin contact

Remove contaminated clothing and shoes. If there has been contact to some skin, wash is thoroughly with water and soap. Skin cleansing remedies can be used. DO NOT use organic solvents or a thinner.

Eye contact

Remove contact lenses. Flush eyes with plenty of water (20-30 °C) until irritation stops, or continue for at least 15 minutes. Make sure to flush under the upper and lower eyelid. Contact a physician at once.

Ingestion

Give the person plenty to drink and keep the person under watch. If fainting: Contact a physician immediately and bring along this security datasheet or the label from the product. Do not induce vomiting, unless recommended by the physician. Lower the person's head, so that vomit does not run back into the mouth or throat.

Burns

Rinse with water until the pain stops and continue for 30 minutes.

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

This product contains organic solvent, which can have an effect on the nerves system. Symptoms can be: Loss of appetite, headache, dizziness, whistle to the ears, tingeling sensation in the skin, sensitiveness to cold, cramps, difficulties concentrating, fatigues etc. The result of repeatedly exposure to organic solvents can be an erosion of the skins natural layer of fat. Afterwards the skin will be exposed to uptake of damaging substances such as allergens.

Sensibilising effects: This product contains substances which can cause allergies when contact to skin. The reaction of the allergy will typically set in within 12-72 hours after penetration through the skin, and will react with the proteins in the outer layer. The bodies immune system will perceive the strange chemical protein as a foreign body and will try to break it down.

Irritable effects: This product contains substances which are irritable to skin and eyes, or when inhaled. A result of contact with a locally irritable substances, can be, that the area of contact, will be more pruned to take-in of damaging substances such as allergens.

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

Non specific.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommendation: alcohol resistant foam, carbonic acid, powder, fog. Usage of a water beam is forbidden, since it can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product gets exposed to high temperature, as in case of a fire, dangerous demolition products get created. These are: Carbon oxides. Some metal oxides. If exposed to decomposition products, a danger to one's health is at risk. Fire fighters should use proper protection gear. A closed container, which is exposed to fire, should be cooled with water. Do not allow the water from the fire extinction run into sewer systems and water streams.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours from waste material. Cool a non ignited storage with fog. If possible, remove flammable materials. Make sure there is plenty of ventilation.

6.2. Environmental precautions

In order to prevent outlet to the surroundings, put up waste collecting trays/basins. Avoid spreading to lakes, streams, sewers etc. In case of an outlet, to the surroundings, contact the local environmental government.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. If possible, clean with cleaning supplies. Solvents should be avoided.

6.4. Reference to other sections

See section 13 regarding handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, consumption of food and liquids as well as storage of tobacco, foods and liquids is not allowed in the room. In order to prevent outlet to the surroundings, put up waste collecting trays/basins. See section on 'Exposure controls/personal protection' for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Always store in the same container as the original material. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Needs to be stored in a cool and ventilated area, away from possible fire hazardous materials.

Storage temperature

Protect from heat/overheating.

7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

ethylbenzene (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 441 mg/m³

Short-term exposure limit (15-minute reference period): 125 ppm | 552 mg/m³

Comments: Sk (Sk = Can be absorbed through skin.)

According to EC-Regulation 1907/2006 (REACH)

xylene (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 220 mg/m³

Short-term exposure limit (15-minute reference period): 100 ppm | 441 mg/m³

Comments: Sk BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin.)

ethyl acetate (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 200 ppm | - mg/m³

Short-term exposure limit (15-minute reference period): 400 ppm | - mg/m³

DNEL / PNEC

No data available.

8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

General recommendations

Smoking, consumption of food and liquids as well as storage of tobacco, foods and liquids, is not allowed in the room.

Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

Exposure limits

Trade users should encompass the rules of the work environment legislation on maximum concentrations of exposure. See work hygienic threshold limiting values below.

Appropriate technical measures

Airborne gas and dust concentrations must be kept lowest possible and under the existing threshold limiting values (see below). In case the air streams in the work room is not sufficient, use for example an exhaust. Make sure there are visible signs for eye cleanser and shower.

Hygiene measures

Wash hands before breaks and at the end of work.

Measures to avoid environmental exposure

No specific demands.

Individual protection measures, such as personal protective equipment



Generally

Only CE-marked personal protection equipment should be used.

Respiratory Equipment

Recommended: A, Class 2 (medium capacity), Brown

Skin protection

Specific work clothing should be used.

Hand protection

Recommended: Nitrile rubber. . Breakthrough time: Discarded immediately after use

Eye protection

Use face shield. Use safety glasses with a side shield as an alternative.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Colour	Odour	pH	Viscosity	Density (g/cm ³)
Liquid	Yellow	NA	-	-	0,87
Phase changes					
Melting point (°C)		Boiling point (°C)		Vapour pressure (mm Hg)	
-		104		-	
Data on fire and explosion hazards					
Flashpoint (°C)		Ignition (°C)		Self ignition (°C)	
7		-		-	
Explosion limits (Vol %)		Oxidizing properties			
-		-			
Solubility					
Solubility in water		n-octanol/water coefficient			

Insoluble	-
9.2. Other information	
Solubility in fat	Additional information
-	N/A

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7.

10.3. Possibility of hazardous reactions

Non specific.

10.4. Conditions to avoid

Avoid static electricity Overpressure develops, when exposed to heating (e.g.. sunlight).

10.5. Incompatible materials

Strong acids, strong bases, strong oxidations remedies and strong reduction remedies.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance	Species	Test	Route of exposure	Result
xylene	Rat	LD50	Oral	>3900 mg/kg
xylene	Rat	LC50	Inhalation	20 mg/l 4h
Naphtha (petroleum), hydrotrea...	Rat	LD50	Oral	>5840 mg/kg
Naphtha (petroleum), hydrotrea...	Rat	LD50	Dermal	>2920 mg/kg
Naphtha (petroleum), hydrotrea...	Rat	LC50	Inhalation	>23300 mg/m3
zinc oxide	Rat	LC50	Inhalation	2500 mg/min
zinc oxide	Rat	LD50	Oral	7950 mg/kg
ethyl acetate	Rat	LD50	Oral	5600 mg/kg
ethyl acetate	Rat	LC50	Inhalation	56000 mg/l/4h

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Long term effects

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Sensibilising effects: This product contains substances which can cause allergies when contact to skin.

The reaction of the allergy will typically set in within 12-72 hours after penetration through the skin, and will react with the proteins in the outer layer. The bodies immune system will perceive the strange chemical protein as a foreign body and will try to break it down.

Irritable effects: This product contains substances which are irritable to skin and eyes, or when inhaled. A result of contact with a locally irritable substances, can be, that the area of contact, will be more pruned to take-in of damaging substances such as allergens.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Test duration	Result
xylene	Fish	LC50	96 h	2 mg/l
xylene	Daphnia	EC50	48 h	8,5 mg/l
xylene	Algae	LC50	72 h	3,2 mg/l
Naphtha (petroleum), hydrotrea...	Fish	LC50	96 h	13,4 mg/l
Naphtha (petroleum), hydrotrea...	Daphnia	EC50	48 h	3 mg/l
zinc oxide	Daphnia	EC50	48 h	>1000 mg/l
zinc oxide	Fish	LC50	96 h	1,1 mg/l
zinc oxide	Algae	EC50	72 h	0,17 mg/l
ethyl acetate	Fish	LC50	96 h	>200 mg/l
ethyl acetate	Daphnia	EC50	48 h	>700 mg/l
ethyl acetate	Algae	IC50	72 h	>100 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
xylene	Yes	No data available	No data available
Naphtha (petroleum), hydrotrea...	Yes	No data available	No data available
ethyl acetate	Yes	No data available	No data available

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
No data available.			

12.4. Mobility in soil

xylene: Log Koc= 2,572885, Calculated from LogPow (Moderate mobility potential.).

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

This product contains ecotoxic substances, which can have damaging effects on water-organisms. This product contains substances, which can give unwanted long term effects in a water environment, due to its poor decomposition.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product should be treated as dangerous waste.

Waste

EWC code
08 04 09

Specific labelling

-

Contaminated packing

Contaminated packaging should be disposed of the same way as the product itself.

SECTION 14: Transport information

This product is included in the regulation of dangerous goods.

14.1 – 14.4

ADR/RID	14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group	Notes		
	1133	ADHESIVES containing flammable liquid	3	II	-		
IMDG	UN-no.	Proper Shipping Name	Class	PG*	EmS	MP**	Hazardous constituent
	1133	Adhesives	3	II	F-E, S-D	-	-

14.5. Environmental hazards

This product contains substances, which can give unwanted long term effects in a water environment, due to its poor decomposition.

14.6. Special precautions for user

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC

Demands for specific education

-

Additional information

-

15.2. Chemical safety assessment

No

SECTION 16: Other information'

Sources

EC regulation 1907/2006 (REACH)

Directive 2000/532/EC

EC Regulation 1272/2008 (CLP)

Full text of H/R-phrases as mentioned in section 3

R10 - Flammable.

R11 - Highly flammable.

R20 - Harmful by inhalation.

R36 - Irritating to eyes.

R38 - Irritating to skin.

R43 - May cause sensitisation by skin contact.

R65 - Harmful: may cause lung damage if swallowed.

R66 - Repeated exposure may cause skin dryness or cracking.

R67 - Vapours may cause drowsiness and dizziness.

R20/21 - Harmful by inhalation and in contact with skin.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H225 - Highly flammable liquid and vapour.

H226 - Flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H312 - Harmful in contact with skin.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H336 - May cause drowsiness or dizziness.

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.

EUH066 - Repeated exposure may cause skin dryness or cracking.

The full text of identified uses as mentioned in section 1

Other symbols mentioned in section 2

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Other

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

According to EC-Regulation 1907/2006 (REACH)



The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

The safety data sheet is validated by

Connie Fløe

**Date of last essential change
(First cipher in SDS version)**

13-12-2013

**Date of last minor change
(Last cipher in SDS version)**

23-01-2014

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