SAFETY DATA SHEET

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

1.1. Product identifier

Trade name
DANA Upholstering Adhesive 117
Product no.
330
REACH registration number
Not applicable

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

Relevant identified uses of the substance or mixture
Waterbased for indoor bonding
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
2017-06-08
SDS Version
2.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 “First aid measures”.

SECTION 2: Hazards identification

▼2.1. Classification of the substance or mixture

Flam. Liq. 2; H225
Skin Irrit. 2; H315
Eye Irrit. 2; H319
STOT SE 3; H336
STOT RE 2; H373
Aquatic Chronic 2; H411
See full text of H-phrases in section 2.2.

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)
May cause damage to organs through prolonged or repeated exposure. (H373)
Toxic to aquatic life with long lasting effects. (H411)

Safety statement(s)

General	-
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210). Avoid breathing mist/vapours/spray. (P261). Avoid release to the environment. (P273). Wear protective gloves/eye protection/face protection. (P280).
Response	If eye irritation persists: Get medical advice/attention. (P337+P313).
Storage	Store in a well-ventilated place. Keep cool. (P403+P235).
Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

acetone, Naphtha (petroleum), hydrotreated light < 0,1% benzene, xylene

2.3. Other hazards

This product contains teratogenic substances, which may cause long-term adverse effects to the unborn foetus.

This product contains substances that may cause adverse effects to the reproductive system.
This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

Additional labelling

Contains Colophony. May produce an allergic reaction. (EUH208).

Additional warnings

-

VOC

-

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	acetone
IDENTIFICATION NOS.:	CAS-no: 67-64-1 EC-no: 200-662-2 Index-no: 606-001-00-8
CONTENT:	25-40%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Eye Irrit. 2 H225, H319, H336, EUH066
NOTE:	SL
NAME:	Naphtha (petroleum), hydrotreated light < 0,1% benzene
IDENTIFICATION NOS.:	CAS-no: 64742-49-0 EC-no: 265-151-9 REACH-no: 01-2119475133-43-xxxx Index-no: 649-328-00-1
CONTENT:	25-40%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Skin Irrit. 2, Asp. Tox. 1, Aquatic Chronic 2 H225, H304, H315, H336, H411

NAME:	xylene
IDENTIFICATION NOS.:	CAS-no: 1330-20-7 EC-no: 215-535-7 REACH-no: 01-2119488216-32-XXXX Index-no: 601-022-00-9
CONTENT:	10 - <15%
CLP CLASSIFICATION:	Flam. Liq. 3, Asp. Tox. 1, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Acute Tox. 4, STOT SE 3, STOT RE 2 H226, H304, H312, H315, H319, H332, H335, H373
NOTE:	SL

NAME:	ethylbenzene
IDENTIFICATION NOS.:	CAS-no: 100-41-4 EC-no: 202-849-4 REACH-no: 01-2119489370-35-XXXX Index-no: 601-023-00-4
CONTENT:	2.5 - <5%
CLP CLASSIFICATION:	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1 H225, H304, H332, H373
NOTE:	SL

NAME:	Colophony
IDENTIFICATION NOS.:	CAS-no: 8050-09-7 EC-no: 232-475-7 Index-no: 650-015-00-7
CONTENT:	0.25 - <1%
CLP CLASSIFICATION:	Skin Sens. 1 H317

NAME:	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
IDENTIFICATION NOS.:	CAS-no: 119-47-1 EC-no: 204-327-1
CONTENT:	0.25 - <1%
CLP CLASSIFICATION:	Repr. 2, Aquatic Chronic 4 H361, H413

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.
S = Organic solvent L = European occupational exposure limit.

Other information

ATEmix(inhale, vapour) > 20
ATEmix(dermal) > 2000
ATEmix(oral) > 2000
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 3,8784 - 5,8176
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 3,1832 - 4,7748
N chronic (CAT 2) Sum = Sum(Ci/(M(chronic)i*25)*0.1*10^CATi) = > 1 - 1,2684432

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. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Bring the person into fresh air and stay with him.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

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

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous

system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.
This product contains substances that may trigger an allergic reaction to predisposed persons.
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Some metal oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

No specific requirements.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours from spilled material. Avoid direct contact with spilled substances. Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

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. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section on “Disposal considerations” in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid static electricity. Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.
Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Storage temperature

Room temperature 18 to 23°C

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

ethylbenzene
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.)

xylene
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.)

acetone
Long-term exposure limit (8-hour TWA reference period): 500 ppm | 1210 mg/m³
Short-term exposure limit (15-minute reference period): 1500 ppm | 3620 mg/m³

DNEL / PNEC

DNEL (acetone): 200 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects
Remarks: Forbruger
DNEL (acetone): 62 mg/kg/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects
Remarks: Forbruger
DNEL (acetone): 62 mg/kg/day
Exposure: Oral
Duration of Exposure: Long term – Systemic effects
Remarks: Forbruger
DNEL (acetone): 1210 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects
Remarks: Arbejdstager
DNEL (acetone): 186 mg/kg/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects
Remarks: Arbejdstager
DNEL (acetone): 2420 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Local effects
Remarks: Arbejdstager

PNEC (acetone): 29,5 mg/kg
Exposure: Soil
PNEC (acetone): 10,6 mg/l
Exposure: Freshwater
PNEC (acetone): 1,06 mg/l
Exposure: Marine water

8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see

above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

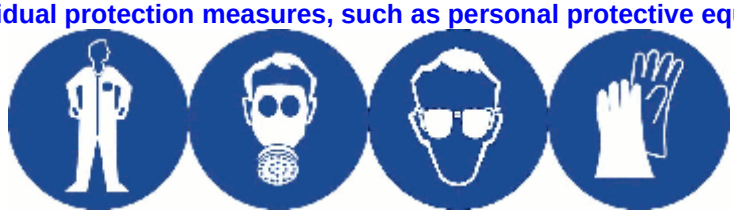
Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep containment materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

Respiratory Equipment

Recommended: AX. Brown

Skin protection

Use appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester. Chemical resistant suit with helmet/hood (Type 4, 5, 6 Category III) is recommended for spray applications. Permeation tests according to EN 369 are required in order to obtain necessary information about the efficiency of protection from the substances mentioned in section 3.

Hand protection

Recommended: 4H/Barrier. Breakthrough time: > 480 minutes (Class 6)

Eye protection

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Various colours
Odour	No data available.
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	400-500 mPa.s
Density (g/cm³)	0,8

Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

Data on fire and explosion hazards

Flash point (°C)	0
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.

Solubility

Solubility in water	Insoluble
n-octanol/water coefficient	No data available.

9.2. Other information

Solubility in fat (g/L)	No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
The product is stable under the conditions, noted in the section “Handling and storage”.

10.3. Possibility of hazardous reactions
Nothing special

10.4. Conditions to avoid
Avoid static electricity. Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

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
6,6'-di-tert-butyl-2,2'-methyl...	Rat	LD50	Oral	>10000mg/kg
xylene	Rat	LC50	Inhalation	20 mg/l 4h
xylene	Rat	LD50	Oral	>3900 mg/kg
Naphtha (petroleum),	Rat	LC50	Inhalation	>23300 mg/m3
hydrotrea...	Rat	LD50	Dermal	>2920 mg/kg
Naphtha (petroleum),	Rat	LD50	Oral	>5840 mg/kg
hydrotrea...	Rabbit	LD50	Dermal	>7400 mg/kg
Naphtha (petroleum),	Rat	LC50	Inhalation	32 mg/l
hydrotrea...	Rat	LD50	Oral	5800 mg/kg
acetone				
acetone				
acetone				

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitisation
This product contains substances that may trigger an allergic reaction to predisposed persons.

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
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available.

Long term effects
Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders.
Reproductive toxicity: This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.
Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Duration	Result
6,6'-di-tert-butyl-2,2'-methyl...				
xylene	Fish	LC50	96h	>50mg/l
xylene	Fish	LC50	96 h	2 mg/l
xylene	Daphnia	EC50	48 h	8,5 mg/l
Naphtha (petroleum),	Algae	LC50	72 h	3,2 mg/l
hydrotrea...	Fish	LC50	96 h	13,4 mg/l
Naphtha (petroleum),	Daphnia	EC50	48 h	3 mg/l
hydrotrea...	Algae	NOEC	96 h	7000 mg/l
acetone				

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
acetone	No	No data available	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

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms. This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

Waste

EWC code	
08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances

Specific labelling

-

Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

14.1. UN number	1133
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	3
14.4. Packing group	II
Notes	-

Tunnel restriction code	D/E

IMDG

UN-no.	1133
Proper Shipping Name	ADHESIVES containing flammable liquid
Class	3
PG*	II
EmS	F-E, S-D
MP**	No
Hazardous constituent	-

IATA/ICAO

UN-no.	1133
Proper Shipping Name	ADHESIVES containing flammable liquid
Class	3
PG*	II

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of Marpol 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 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

-

Additional information

-

Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.
Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).
EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

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.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H361 - Suspected of damaging fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure¤.
H411 - Toxic to aquatic life with long lasting effects.
H413 - May cause long lasting harmful effects to aquatic life.
EUH066 - Repeated exposure may cause skin dryness or cracking.

The full text of identified uses as mentioned in section 1

-

Additional label elements

-

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:
The classification of the mixture in regard of physical hazards has been based on experimental data.
The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)
The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)
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.
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, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by

Robert Pedersen

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

2015-04-27

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

2015-05-11