

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Universal Adhesive 300

Product no.

-

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

Solvent based adhesive

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

2017-03-09

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
Eye Irrit. 2; H319
STOT SE 3; H336
Aquatic Chronic 3; H412
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 serious eye irritation. (H319)
May cause drowsiness or dizziness. (H336)
Harmful to aquatic life with long lasting effects. (H412)

Safety statement(s)

General If medical advice is needed, have product container or label at hand. (P101).
Keep out of reach of children. (P102).
Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210).
Use only outdoors or in a well-ventilated area. (P271).
Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).
Storage -
Disposal Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

acetone

▼ **2.3. Other hazards**

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**

Repeated exposure may cause skin dryness or cracking. (EUH066)

Additional warnings

Tactile warning.

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:	60-80%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Eye Irrit. 2 H225, H319, H336, EUH066
NOTE:	SL
NAME:	Cellulose, nitrate
IDENTIFICATION NOS.:	CAS-no: 9004-70-0 EC-no: - Index-no: 603-037-00-6
CONTENT:	10 - <15%
CLP CLASSIFICATION:	Flam. Sol. H228
NAME:	ethanol
IDENTIFICATION NOS.:	CAS-no: 64-17-5 EC-no: 200-578-6 Index-no: 603-002-00-5
CONTENT:	5 - <10%
CLP CLASSIFICATION:	Flam. Liq. 2 H225
NOTE:	S
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:	2.5 - <5%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Skin Irrit. 2, Asp. Tox. 1, Aquatic Chronic 2 H225, H304, H315, H336, H411
NAME:	n-butyl acetate
IDENTIFICATION NOS.:	CAS-no: 123-86-4 EC-no: 204-658-1 Index-no: 607-025-00-1
CONTENT:	1 - <2.5%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3

According to EC-Regulation 2015/830

NOTE:	H226, H336, EUH066 S
NAME:	butan-1-ol
IDENTIFICATION NOS.:	CAS-no: 71-36-3 EC-no: 200-751-6 Index-no: 603-004-00-6
CONTENT:	1 - <2.5%
CLP CLASSIFICATION:	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3 H226, H302, H315, H318, H335, H336
NOTE:	S

(*) See full text of H-phrases in chapter 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(oral) > 2000
Eye Cat. 2 Sum = $\sum(C_i/S(G)CL_i) = 5,9944 - 8,9916$
Skin Cat. 2 Sum = $\sum(C_i/S(G)CL_i) = 0,4384 - 0,6576$
N chronic (CAT 3) Sum = $\sum(C_i/(M(chronic)^{25}) \cdot 0.1 \cdot 10^{CAT_i}) = 1,36784 - 2,05176$

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

Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with water and soap. 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

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Rinse with water until pain stops then continue to rinse for 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.

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

No special

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. 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. 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 in order 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 in order to prevent emissions to the waste water system and surrounding environment. See section on 'Exposure controls/personal protection' for information on personal protection.

▼ 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

Protect from heat/overheating.

▼ 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

butan-1-ol

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

Short-term exposure limit (15-minute reference period): 50 ppm | 154 mg/m³

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

n-butyl acetate

Long-term exposure limit (8-hour TWA reference period): 150 ppm | 724 mg/m³

Short-term exposure limit (15-minute reference period): 200 ppm | 966 mg/m³

ethanol

According to EC-Regulation 2015/830

Long-term exposure limit (8-hour TWA reference period): 1000 ppm | 1920 mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

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 given 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

No specific requirements.

Individual protection measures, such as personal protective equipment



▼ Generally

According to EC-Regulation 2015/830

Use only CE marked protective equipment.

▼ Respiratory Equipment

If ventilation at the work place is insufficient, use a half- or whole mask with an appropriate filter or an air-supplied breathing apparatus depending on the concrete work situation and how long you will be using the product.

▼ Skin protection

Wear appropriate protection clothing, e.g. coveralls in polypropylene approved type 6 and Category III.

▼ 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	Clear
Odour	No data available.
pH	No data available.
Viscosity (40°C)	5600-7000
Density (g/cm ³)	0,89

▼ Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	56
Vapour pressure	No data available.

▼ Data on fire and explosion hazards

Flashpoint (°C)	-18
Ignition (°C)	No data available.
Self-ignition (°C)	No data available.
Explosion limits (Vol %)	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.
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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

No 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
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According to EC-Regulation 2015/830

n-butyl acetate	Rat	LC50	Inhalation	23,4 mg/l 4 hours
n-butyl acetate	Rat	LD50	Dermal	14100 mg/kg
n-butyl acetate	Rat	LD50	Oral	10760-13100 mg/kg
Naphtha (petroleum), hydrotrea...	Rat	LC50	Inhalation	>23300 mg/m3
Naphtha (petroleum), hydrotrea...	Rat	LD50	Dermal	>2920 mg/kg
Naphtha (petroleum), hydrotrea...	Rat	LD50	Oral	>5840 mg/kg
Naphtha (petroleum), hydrotrea...	Rabbit	LD50	Dermal	>7400 mg/kg
Naphtha (petroleum), hydrotrea...	Rat	LC50	Inhalation	32 mg/l
acetone	Rat	LD50	Oral	5800 mg/kg
acetone				
acetone				

▼ Skin corrosion/irritation

Data on substance: n-butyl acetate

Test: OECD Guideline 404

Organism: Rabbit

Result: Irritating

Data on substance: n-butyl acetate

Test: OECD Guideline 405

Organism: Rabbit

Result: Irritating

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

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
n-butyl acetate				
n-butyl acetate	Daphnia	EC50	48 hours	44 mg/l
Naphtha (petroleum), hydrotrea...	Algae	EC50	72 hours	647,7 mg/l
Naphtha (petroleum), hydrotrea...	Fish	LC50	96 h	13,4 mg/l
Naphtha (petroleum), hydrotrea...	Daphnia	EC50	48 h	3 mg/l
acetone	Algae	NOEC	96 h	7000 mg/l

▼ 12.2. Persistence and degradability

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

According to EC-Regulation 2015/830

acetone

▼ 12.3. Bioaccumulative potential

Substance
acetone

Potential bioaccumulation
No

LogPow
No data available

BCF
No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

▼ 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

Packaging containing residues of the product 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	ADHESIVES containing flammable liquid
14.3. Transport hazard class(es)	3
14.4. Packing group	II
Notes	-
Tunnel restriction code	-

IMDG

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

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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.

H228 - Flammable solid.

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

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

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Other symbols mentioned in section 2

-

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)

2015-02-10

Date of last minor change

(Last cipher in SDS version)

2015-02-10