

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

PU Cleaner 599

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

Cleaner

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

2019-07-05

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

Aerosol 1; H222, H229
Eye Irrit. 2; H319
STOT SE 3; H336
See full text of H-phrases in section 2.2.

2.2. Label elements

▼ Hazard pictogram(s)**Signal word**

Danger

Hazard statement(s)

Extremely flammable aerosol. (H222)
 Pressurised container: May burst if heated. (H229)
 Causes serious eye irritation. (H319)
 May cause drowsiness or dizziness. (H336)

Precautionary statements

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).
 Do not spray on an open flame or other ignition source. (P211).
 Do not pierce or burn, even after use. (P251).
 Use only outdoors or in a well-ventilated area. (P271).
 Wear gloves/eye protection. (P280).

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 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. (P410+P412).

Disposal -

Identity of the substances primarily responsible for the major health hazards

acetone

Additional labelling

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

Unique formula identifier (UFI)

-

▼ 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 warnings

Not applicable

VOC (volatile organic compound)

Not applicable

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 REACH-no: 01-2119471330-49-xxxx 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: | O L |
| NAME: | isobutane |
| IDENTIFICATION NOS.: | CAS-no: 75-28-5 EC-no: 200-857-2 Index-no: 601-004-00-0 |
| CONTENT: | 5 - <10% |
| CLP CLASSIFICATION: | Comp. Gas, Flam. Gas 1 H220, H280 |
| NAME: | carbondioxid |
| IDENTIFICATION NOS.: | CAS-no: 124-38-9 EC-no: 204-696-9 |
| CONTENT: | 5 - <10% |
| CLP CLASSIFICATION: | Comp. Gas H280 |
| NOTE: | L |
| NAME: | propane |
| IDENTIFICATION NOS.: | CAS-no: 74-98-6 EC-no: 200-827-9 Index-no: 601-003-00-5 |
| CONTENT: | 1 - <2.5% |
| CLP CLASSIFICATION: | Comp. Gas, Flam. Gas 1 H220, H280 |

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

Other information

Eye Cat. 2 Sum = $\text{Sum}(\text{Ci}/\text{S}(\text{G})\text{CLi}) = 6,2 - 9,3$

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 0344 892 0111 (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/her.

▼ 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. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

▼ 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 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.

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.

This product contains substances, which causes irritation of the eyes. Typical symptoms of eye irritation may include itchy eyes, eye redness or excessive tearing.

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

Nothing 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

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

contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

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**
No specific requirements.
- ▼ **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**
Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. 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
To be stored cool and dry
- ▼ **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

carbondioxid

Long-term exposure limit (8-hour TWA reference period): 5000 ppm | 9150 mg/m³

Short-term exposure limit (15-minute reference period): 15000 ppm | 27400 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: Forbrugger

DNEL (acetone): 62 mg/kg/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects

Remarks: Forbrugger

DNEL (acetone): 62 mg/kg/day

Exposure: Oral

Duration of Exposure: Long term – Systemic effects

Remarks: Forbrugger

DNEL (acetone): 1210 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects

Remarks: Arbejdstager

According to EC-Regulation 2015/830

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

No specific requirements.

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

Respiratory Equipment

If ventilation at the work place is insufficient, use a half- or full mask with an appropriate filter or an air-supplied breathing apparatus depending on the specific 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

Butyl rubber

Material thickness: > 0,5 mm.

Eye protection

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

▼9.1. Information on basic physical and chemical properties

| | |
|---|--------------------|
| Form | Aerosol |
| Colour | Colourless |
| Odour | Acetone-like |
| Odour threshold (ppm) | No data available. |
| pH | No data available. |
| Viscosity (40°C) | No data available. |
| Density (g/cm ³) | 0,78 |
| Phase changes | |
| Melting point (°C) | No data available. |
| Boiling point (°C) | No data available. |
| Vapour pressure (25°C) | 6 bar |
| Decomposition temperature (°C) | No data available. |
| Evaporation rate (n-butylacetate = 100) | No data available. |
| Data on fire and explosion hazards | |
| Flash point (°C) | No data available. |
| Ignition (°C) | No data available. |
| Auto flammability (°C) | No data available. |
| Explosion limits (% v/v) | 1,7 - 13 |
| 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: acetone
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 5800 mg/kg

Substance: acetone
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: >7400 mg/kg

Substance: acetone
Species: Rat
Test: LC50
Route of exposure: Inhalation

According to EC-Regulation 2015/830

Result: 32 mg/l

▼ **Skin corrosion/irritation**

No data available.

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: acetone
Species: Algae
Test: NOEC
Duration: 96 h
Result: 7000 mg/l

12.2. Persistence and degradability

| Substance | Biodegradability | Test | Result |
|-----------|------------------|-------------------|-------------------|
| acetone | Yes | No data available | No data available |

12.3. Bioaccumulative potential

| Substance | Potential bioaccumulation | LogPow | BCF |
|-----------|---------------------------|-------------------|-------------------|
| acetone | No | No data available | No data available |

12.4. Mobility in soil

No data available

▼ **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**

Nothing special

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

▼ **Waste**

| EWC code | Waste description |
|----------|---|
| 16 05 04 | gases in pressure containers (including halons) containing dangerous substances |

▼ **Specific labelling**

Not applicable

▼ **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 1950

14.2. UN proper shipping name -

14.3. Transport hazard class(es) 2.1

14.4. Packing group -

Notes -

Tunnel restriction code D

IMDG

UN-no. 1950

Proper Shipping Name AEROSOLS, flammable

Class 2.1

PG* -

EmS F-D,S-U

MP** No

Hazardous constituent -

IATA/ICAO

UN-no. 1950

Proper Shipping Name AEROSOLS, flammable

Class 2.1

PG* -

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

Not applicable

Seveso

Seveso III Part 1: P3a

Biocidal reg. no.

Not applicable

Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.
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).
Regulation (EC) 1907/2006 (REACH).
The Control of Major Accident Hazards (COMAH) Regulations 2015.

15.2. Chemical safety assessment

No

SECTION 16: Other information

▼ Full text of H-phrases as mentioned in section 3

H220 - Extremely flammable gas.
H225 - Highly flammable liquid and vapour.
H280 - Contains gas under pressure; may explode if heated.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
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)
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)

2016-09-16(1.0)

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

2016-09-16