SAFETY DATA SHEET

PU Cleaner 599

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

1.1. Product identifier

Trade name

PU Cleaner 599

Unique formula identifier (UFI)

3CCY-UVEW-PQ8J-KTK1

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

Relevant identified uses of the substance or mixture

Cleaner for PU-foam

▼Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

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

Contact person

Product Safety Department

E-mail

info@danalim.dk

Revision

21/12/2022

SDS Version

3.0

Date of previous version

05/07/2022 (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, Extremely flammable aerosol. Pressurised container: May burst if heated.
Eye Irrit. 2; H319, Causes serious eye irritation.
STOT SE 3; H336, May cause drowsiness or dizziness.

2.2. Label elements

Hazard pictogram(s)

Signal word

Danger

Hazard statement(s)

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

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)
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 eye protection/protective gloves. (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 no expose to temperatures exceeding 50 °C/122°F. (P410+P412)

▼Disposal
Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances
acetone

▼Additional labelling
EUH066, Repeated exposure may cause skin dryness or cracking.
UFI: 3CCY-UVEW-PQ8J-KTK1

2.3. Other hazards

▼Additional warnings
In the event of leaks, high concentrations of gases can quickly form. They can be toxic, asphyxiating, or explosive.
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. ▼Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
acetone	CAS No.: 67-64-1 EC No.: 200-662-2 UK-REACH: Index No.: 606-001-00-8	80-95%	EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1]
Dimethyl ether	CAS No.: 115-10-6 EC No.: 204-065-8 UK-REACH: Index No.: 603-019-00-8	15-25%	Flam. Gas 1A, H220 Press. Gas (Comp.) H280	[1]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

▼Other information
[1] European occupational exposure limit.

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 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
Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

IF ON SKIN: Wash with plenty of water and soap.
Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. 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 person 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

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.
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.

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 or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. ▼Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. 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.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Carbon oxides (CO / CO2)

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

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

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. ▼Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. ▼Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "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.
Because of the danger of self-ignition, any waste from the product, spray mist and soiled rags etc. are to be kept in a fire-proof place in air-tight containers, alternatively the waste is to be burned.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.
Pressurized gas packs (spray cans, aerosol cans) must be stored behind a wire mesh, which allows gases to escape and holds back packs flying around.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

Dry, cool and well ventilated

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

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

acetone
Long term exposure limit (8 hours) (ppm): 500
Long term exposure limit (8 hours) (mg/m³): 1210
Short term exposure limit (15 minutes) (ppm): 1500
Short term exposure limit (15 minutes) (mg/m³): 3620

Dimethyl ether
Long term exposure limit (8 hours) (ppm): 400
Long term exposure limit (8 hours) (mg/m³): 766
Short term exposure limit (15 minutes) (ppm): 500
Short term exposure limit (15 minutes) (mg/m³): 958

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

acetone

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	62 mg/kg/day
Long term – Systemic effects - Workers	Dermal	186 mg/kg/day
Long term – Systemic effects - General population	Inhalation	200 mg/m3
Long term – Systemic effects - Workers	Inhalation	1.210 mg/m3
Short term – Local effects - Workers	Inhalation	2.420 mg/m3
Long term – Systemic effects - General population	Oral	62 mg/kg/day

Dimethyl ether

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Inhalation	471 mg/m3
Long term – Systemic effects - Workers	Inhalation	1894 mg/m3

PNEC

acetone

Route of exposure	Duration of Exposure	PNEC
Freshwater		10,6 mg/l
Freshwater sediment		3,04 mg/kg
Marine water		1,06 mg/l
Sewage treatment plant		29,5 mg/kg
Soil		33,3 mg/l
Water		21 mg/l

Dimethyl ether

Route of exposure	Duration of Exposure	PNEC
Freshwater		0,155 mg/l
Freshwater sediment		0,681 mg/kg
Intermittent release		1,549 mg/l
Marine water		0,016 mg/l
Marine water sediment		0,069 mg/kg
Sewage treatment plant		160 mg/l
Soil		0,045 mg/kg

8.2. ▼Exposure controls

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

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

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

Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

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.

8.3. Individual protection measures, such as personal protective equipment

Generally

Use only UKCA marked protective equipment.

Respiratory Equipment

Work situation	Type	Class	Colour	Standards
In case of insufficient ventilation and short term use	AX	-	Brown	EN141
In case of intensive or longer exposure	Powered fresh air hose breathing apparatus			

▼Skin protection

No specific requirements.

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Butyl	0.5	> 240	EN374-2, EN374-3, EN388, EN421

Eye protection

Type	Standards	
Wear safety glasses with side shields.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Aerosol

Colour
Colourless

Odour / Odour threshold
Acetone-like

▼pH
Testing not relevant or not possible due to the nature of the product.

▼Density (g/cm³)
Testing not relevant or not possible due to the nature of the product.

▼Kinematic viscosity
Testing not relevant or not possible due to the nature of the product.

▼Particle characteristics
Testing not relevant or not possible due to the nature of the product.

Phase changes

▼Melting point/Freezing point (°C)
Testing not relevant or not possible due to the nature of the product.

Softening point/range (waxes and pastes) (°C)
Does not apply to aerosols.

Boiling point (°C)
-25

▼Vapour pressure
Testing not relevant or not possible due to the nature of the product.

▼Relative vapour density
Testing not relevant or not possible due to the nature of the product.

▼Decomposition temperature (°C)
Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)
-41

▼Auto-Ignition (°C)
Testing not relevant or not possible due to the nature of the product.

Flammability (°C)
240

▼Lower and upper explosion limit (% v/v)
Testing not relevant or not possible due to the nature of the product.

Solubility

▼Solubility in water
Testing not relevant or not possible due to the nature of the product.

▼n-octanol/water coefficient
Testing not relevant or not possible due to the nature of the product.

▼Solubility in fat (g/L)
Testing not relevant or not possible due to the nature of the product.

9.2. Other information

▼Other physical and chemical parameters
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 section 7 “Handling and storage”.

10.3. ▼Possibility of hazardous reactions
None known.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	acetone
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	5800 mg/kg ·
Other information	

Product/substance	acetone
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>7.400 mg/kg ·
Other information	

Product/substance	acetone
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	32 mg/l ·
Other information	

Product/substance	acetone
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	15.800 ·
Other information	

Product/substance	acetone
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	76 ·
Other information	

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory sensitisation
Based on available data, the classification criteria are not met.

Skin sensitisation
Based on available data, the classification criteria are not met.

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Based on available data, the classification criteria are not met.

STOT-single exposure
May cause drowsiness or dizziness.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects
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. 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.

▼Endocrine disrupting properties
None known.

▼Other information
None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	acetone
Test method	
Species	Algae
Compartment	
Duration	96 hours
Test	NOEC
Result	7.000 mg/l ·
Other information	

Product/substance	acetone
Test method	
Species	Daphnia
Compartment	
Duration	28 days
Test	NOEC
Result	2.212 mg/l ·
Other information	

Product/substance	acetone
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	5.540 mg/l, Oncorhynchus mykiss ·
Other information	

Product/substance	acetone
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50

Result	> 100 mg/l, Pimephales promelas ·
Other information	

Product/substance	acetone
Test method	
Species	Crustacean
Compartment	
Duration	48 hours
Test	EC50
Result	8.800 mg/l, Daphnia magna ·
Other information	

12.2. Persistence and degradability

Product/substance	acetone
Biodegradable	Yes
Test method	
Result	

12.3. ▼Bioaccumulative potential

Product/substance	acetone
Test method	
Potential bioaccumulation	No
LogPow	No data available.
BCF	3
Other information	

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. ▼Endocrine disrupting properties

None known.

12.7. ▼Other adverse effects

None known.

SECTION 13: Disposal considerations

Waste treatment methods

Product is covered by the regulations on hazardous waste.
HP 3 - Flammable
HP 4 - Irritant (skin irritation and eye damage)
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

16 05 04* Gases in pressure containers (including halons) containing dangerous substances

▼Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
ADR	1950	AEROSOLS, flammable	Class: 2 Labels: 2.1 Classification code: 5F	-	No	Limited quantities: 1 L Tunnel restriction code: 2 (D) See below for additional

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
						information.
IMDG	1950	AEROSOLS, flammable	Class: 2 Labels: 2.1 Classification code: 5F	-	No	Limited quantities: 1 L EmS: F-D S-U See below for additional information.
IATA	1950	AEROSOLS, flammable	Class: 2 Labels: 2.1 Classification code: 5F	-	No	See below for additional information.

* Packing group
** Environmental hazards

▼Additional information

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.
This product is within scope of the regulations of transport of dangerous goods.

14.6. ▼Special precautions for user

Not applicable.

14.7. ▼Maritime transport in bulk according to IMO instruments

No data available.

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.
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

No specific requirements.

SEVESO - Categories / dangerous substances

P3a - FLAMMABLE AEROSOLS, Qualifying quantity (lower-tier): 150 tonnes (net) / (upper-tier): 500 tonnes (net)

▼Regulation on drug precursors

acetone is included (Category 3)

▼Regulation on explosives precursors

acetone (Annex II)

▼Additional information

Not applicable.

▼Sources

The Health and Safety at Work etc. Act 1974 Regulations 2013.
The Aerosol Dispensers Regulations 2009 No. 2824, amended in 2014 (No. 1130) and in 2018 (No. 29).
Control of Major Accident Hazards (COMAH) Regulations 2015.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
The Controlled Drugs (Drug Precursors) Regulations 2008.
Council Regulation (EC) No 2019/1148 on explosives precursors as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

EUH066, Repeated exposure may cause skin dryness or cracking.
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.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

▼Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the mixture in regard to physical hazards has been based on experimental data.

▼The safety data sheet is validated by

Product Safety Department

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.
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.
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.
Country-language: GB-en