

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

PU Well Foam 597

**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**

1-component polyurethane foam ready for use.

**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**

2020-01-09

**SDS Version**

3.0

### 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  
Skin Irrit. 2; H315  
Skin Sens. 1; H317  
Eye Irrit. 2; H319  
Acute Tox. 4; H332  
Resp. Sens. 1; H334  
STOT SE 3; H335  
Carc. 2; H351  
STOT RE 2; H373  
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 skin irritation. (H315)  
 May cause an allergic skin reaction. (H317)  
 Causes serious eye irritation. (H319)  
 Harmful if inhaled. (H332)  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (H334)  
 May cause respiratory irritation. (H335)  
 Suspected of causing cancer. (H351)  
 May cause damage to organs through prolonged or repeated exposure. (H373)

### 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).  
 Do not breathe mist/vapours/spray. (P260).  
 Use only outdoors or in a well-ventilated area. (P271).  
 Wear protective gloves/eye protection/face 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).  
 IF exposed or concerned: Call a POISON CENTER/doctor (P308+P311).

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

**Disposal** Dispose of contents/container to an approved waste disposal plant. (P501).

### Identity of the substances primarily responsible for the major health hazards

Diphenyl methane diisocyanate, isomers and homologues; tris(2-chloro-1-methylethyl) phosphate

### Additional labelling

Contains isocyanates. May produce an allergic reaction. (EUH204)  
 Persons already sensitised to diisocyanates may develop allergic reactions when using this product.  
 Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
 This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

### Unique formula identifier (UFI)

-

### 2.3. Other hazards

Not applicable

### Additional warnings

Tactile warning.

### VOC (volatile organic compound)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1/3.2. Substances/Mixtures

NAME: Diphenyl methane diisocyanate, isomers and homologues

According to EC-Regulation 2015/830

IDENTIFICATION NOS.:	CAS-no: 9016-87-9
CONTENT:	40-60%
CLP CLASSIFICATION:	Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2, Acute Tox. 4, Resp. Sens. 1, STOT SE 3, Carc. 2, STOT RE 2
NOTE:	H315, H317, H319, H332, H334, H335, H351, H373 I P
NAME:	tris(2-chloro-1-methylethyl) phosphate
IDENTIFICATION NOS.:	CAS-no: 13674-84-5 EC-no: 237-158-7
CONTENT:	15 - <25%
CLP CLASSIFICATION:	Acute Tox. 4 H302
NAME:	Dimethyl ether
IDENTIFICATION NOS.:	CAS-no: 115-10-6 EC-no: 204-065-8 REACH-no: 01-2119472128-37-xxxx Index-no: 603-019-00-8
CONTENT:	5 - <10%
CLP CLASSIFICATION:	Comp. Gas, Flam. Gas 1 H220, H280
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:	2,2-dimethylpropan-1-ol, tribromderivat
IDENTIFICATION NOS.:	CAS-no: 36483-57-5 EC-no: 253-057-0
CONTENT:	5 - <10%
CLP CLASSIFICATION:	Eye Irrit. 2 H319
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 P = Prepolymer isocyanate I = Isocyanate monomer L = European occupational exposure limit.

### Other information

ATEmix(inhale, vapour) = 15,968 - <= 20  
ATEmix(oral) > 2000  
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 5,2 - 7,8  
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 4,4 - 6,6

## 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 injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### ▼ 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 immediately with plenty of water or isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under the 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 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**

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Sensitisation: This product contains substances, which may produce an allergic reaction through inhalation. The allergic reaction is typically taking place within an hour subsequent to exposure. The reaction results in an inflammatory reaction to the lungs.

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 may cause irritation upon exposure to skin. Symptoms may include reddening or dry, scaly skin.

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**

IF exposed or concerned: Get immediate 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: Halogenated compounds. 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. 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

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. 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

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

methylenediphenyl diisocyanate

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,02 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | 0,07 mg/m<sup>3</sup>

Dimethyl ether

Long-term exposure limit (8-hour TWA reference period): 400 ppm | 766 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 500 ppm | 958 mg/m<sup>3</sup>

Diphenyl methane diisocyanate, isomers and homologues

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,02 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | 0,07 mg/m<sup>3</sup>

#### ▼ DNEL / PNEC

DNEL (Dimethyl ether): 1894 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Dimethyl ether): 471 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

PNEC (Dimethyl ether): 160 mg/l

Exposure: Sewage Treatment Plant

PNEC (Dimethyl ether): 0,045 mg/kg

Exposure: Soil

PNEC (Dimethyl ether): 1,549 mg/l

Exposure: Intermittent release

PNEC (Dimethyl ether): 0,155 mg/l

Exposure: Freshwater

PNEC (Dimethyl ether): 0,016 mg/l

Exposure: Marine water

PNEC (Dimethyl ether): 0,681 mg/kg

Exposure: Freshwater sediment

PNEC (Dimethyl ether): 0,069 mg/kg

Exposure: Marine water sediment

### 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

Exhaust air that contains the substances shall not be recirculated. 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

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

Nitrile rubber

#### ▼ 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	Yellowish
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	1,05

#### 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 - 18,6
Explosive properties	No data available.

#### Solubility

Solubility in water	Insoluble
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n-octanol/water coefficient  
**9.2. Other information**  
 Solubility in fat (g/L)

No data available.

No data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### ▼ 10.2. Chemical stability

Curing time 24 h.

### ▼ 10.3. Possibility of hazardous reactions

Nothing special

### ▼ 10.4. Conditions to avoid

Avoid static electricity.

### ▼ 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: methylenediphenyl diisocyanate

Species: Rat

Test: LD50

Route of exposure: Oral

Result: >2000 mg/kg

Substance: methylenediphenyl diisocyanate

Species: Rat

Test: LC50

Route of exposure: Inhalation

Result: 368 mg/m<sup>3</sup>, 4h

Substance: Diphenyl methane diisocyanate, isomers and homologues

Species: Rat

Test: LD50

Route of exposure: Oral

Result: >2000 mg/kg

Substance: Diphenyl methane diisocyanate, isomers and homologues

Species: Rat

Test: LC50

Route of exposure: Inhalation

Result: 490 mg/m<sup>3</sup>, 4h

#### ▼ Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

Suspected of causing cancer.

#### Reproductive toxicity

No data available.

#### STOT-single exposure

May cause respiratory irritation.

#### ▼ STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

No data available.

**Long term effects**

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.  
 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: methylenediphenyl diisocyanate  
 Species: Daphnia  
 Test: EC50  
 Duration: 24h  
 Result: >1000 mg/l

Substance: Diphenyl methane diisocyanate, isomers and homologues  
 Species: Daphnia  
 Test: EC50  
 Duration: 24h  
 Result: >1000 mg/l

**12.2. Persistence and degradability**

Substance	Biodegradability	Test	Result
No data available.			

**12.3. Bioaccumulative potential**

Substance	Potential bioaccumulation	LogPow	BCF
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 isocyanates
08 05 01	

**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**

<b>14.1. UN number</b>	1950
<b>14.2. UN proper shipping name</b>	AEROSOLS, flammable
<b>14.3. Transport hazard class(es)</b>	2.1
<b>14.4. Packing group</b>	-
<b>Notes</b>	-
<b>Tunnel restriction code</b>	D



**IMDG**

<b>UN-no.</b>	1950
<b>Proper Shipping Name</b>	AEROSOLS, flammable
<b>Class</b>	2.1
<b>PG*</b>	-
<b>EmS</b>	F-D, S-U
<b>MP**</b>	No
<b>Hazardous constituent</b>	-

**IATA/CAO**

<b>UN-no.</b>	1950
<b>Proper Shipping Name</b>	AEROSOLS, flammable
<b>Class</b>	2.1
<b>PG*</b>	-

**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**

Use of this product requires dedicated training in work with polyurethane and epoxy products.

**Additional information**

Not applicable

**Seveso**

Seveso III Part 1: P3a

**Biocidal reg. no.**

Not applicable

**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.

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.
- H280 - Contains gas under pressure; may explode if heated.
- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 - May cause respiratory irritation.
- H351 - Suspected of causing cancer.
- H373 - May cause damage to organs through prolonged or repeated exposure.

### 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(2.0)

### Date of last minor change

#### (Last cipher in SDS version)

2016-09-16