

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Unitec PVC

**Product no.**

-

**REACH registration number**

Not applicable

**Other means of identification**

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

**Relevant identified uses of the substance or mixture**

glue for PVC (not to other plastics)

**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**

Unipak A/S  
Marktoften 3C  
8464 Galten  
Denmark

**E-mail**

sales@unipak.dk

**SDS date**

27-06-2014

**SDS Version**

1.0

### 1.4. Emergency telephone number

+45 8626 1177 (normal opening time)  
Use your national or local emergency number  
See section 4 "First aid measures"

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Rep. 1B // H360, H335, H319, H315

See full text of H/R-phrases in section 2.2.

**DPD/DSD Classification**

Toxic. (T).

Irritating to eyes, respiratory system and skin.(R36/37/38).

May cause harm to the unborn child.(R61).

### 2.2. Label elements

**Hazard pictogram(s)**



**Signal word**

Danger!

### Hazard statement(s)

- Causes skin irritation. (H315)
- Causes serious eye irritation. (H319)
- May cause respiratory irritation. (H335)
- May damage fertility or the unborn child. (H360)

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

1-methyl-2-pyrrolidon

<b>▼ Safety statement(s)</b>	<b>General</b>	If medical advice is needed, have product container or label at hand. (P101)
	<b>Prevention</b>	Obtain special instructions before use. (P201)
	<b>Response</b>	IF exposed or concerned: Get immediate medical advice/attention. (P308+315)
	<b>Storage</b>	-
	<b>Disposal</b>	-

### 2.3. Other hazards

This product contains an organic solvent.

### Additional labelling

-

### Additional warnings

-

### VOC

-

## SECTION 3: Composition/information on ingredients

### 3.1/3.2. Substances

NAME:	1-methyl-2-pyrrolidon
IDENTIFICATION NOS.:	CAS-no: 872-50-4 EC-no: 212-828-1 Index-no: 606-021-00-7
CONTENT:	75-85%
DSD CLASSIFICATION:	Repr. Cat. 2; R61 Xi; R36/37/38
CLP CLASSIFICATION:	Skin Irrit. 2, Eye Irrit. 2, Repr. 1B, STOT SE 3 H315, H319, H335, H360
NOTE:	S
NAME:	Polyvinylchloride
IDENTIFICATION NOS.:	CAS-no: 9002-86-2
CONTENT:	10-20%
DSD CLASSIFICATION:	-
CLP CLASSIFICATION:	-
NAME:	chllorethylen
IDENTIFICATION NOS.:	CAS-no: 75-01-4 EC-no: 200-831-0 Index-no: 602-023-00-7
CONTENT:	<0.015%
DSD CLASSIFICATION:	F+; R12 Carc. Cat. 1; R45
CLP CLASSIFICATION:	Press. Gas, Carc. 1A H220, H350

(\*) See full text of H/R-phrases in chapter 16. Occupational limits are listed in section 8, if these are available.  
S = Organic solvent

### Other informations

## 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 continue. Never give an unconscious person water or similar.

#### Inhalation

Get the injured person into fresh air. Make sure there is always someone with the injured person. Prevent shock by keeping the injured person warm and calm. If the person stops breathing, give mouth-to-mouth resuscitation. If unconscious, roll the injured person onto side with the top leg bent at both knee and hip.

Call an ambulance.

#### **Skin contact**

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

#### **Eye contact**

Remove contact lenses. Flush eyes with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Contact a doctor at once.

#### **Ingestion**

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

#### **Burns**

Rinse with water until the pain stops and continue for 30 minutes.

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

**Reproductive toxicity:** This product contains teratogenic substances which can do long-term damage to human offspring. The effects on the child can be: death, deformity, delayed development, and functional disorders.  
**Carcinogenic effects:** This product contains substances which are considered or proven to be carcinogenic. The substances are either classified as carcinogenic or are listed by the Danish Working Environment Authority as substances thought to be carcinogenic. These substances are all covered by the DWEA's regulations on work involving the risk of cancer. The danger may lie in inhalation, skin contact or ingestion.  
**Reproductive toxicity:** This product contains substances which can do damage to reproductive capacity, e.g. damage to germ cells or hormonal regulation. The effects can be: sterility, reduced fertility, menstruation disorders, etc.  
**Neurotoxic effect:** This product contains organic solvents, which can have an effect on the nervous system. Symptoms of neurotoxicity can be: loss of appetite, headache, dizziness, whistling in the ears, tingling sensations in the 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. The skin will then be more prone to absorb dangerous substances, e.g. allergens.  
**Irritation effects:** This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

#### **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. Water jets 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, as in the case of fire, dangerous catabolic substances are produced. These are: Nitrogen oxides. Carbon oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.

#### **5.3. Advice for firefighters**

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

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid inhalation of vapours from waste material. Avoid direct contact with spilled substances.

#### **6.2. Environmental precautions**

No specific requirements.

#### **6.3. Methods and material for containment and cleaning up**

According to EC-Regulation 1907/2006 (REACH)

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. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

#### 6.4. Reference to other sections

See section on "Disposal considerations" with regard to the 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, consumption of food or liquid, and storage of tobacco, 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. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Storage temperature

5 to 30°C

### 7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### OEL

chloroethylen (EH40/2005)

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

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

Comments: carc (Carc = Capable of causing cancer. )

1-methyl-2-pyrrolidon (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 25 ppm | 103 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 75 ppm | 309 mg/m<sup>3</sup>

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

#### DNEL / PNEC

No data available.

### 8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

#### General recommendations

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom.

#### Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

#### Exposure limits

Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

#### Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

#### Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

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

#### Individual protection measures, such as personal protective equipment



**Generally**

Only CE-marked personal protection equipment should be used.

**Respiratory Equipment**

Recommended: A, Class 2 (medium capacity), Brown

**Skin protection**

Special work clothing should be used. When working with this product for a long period of time, use a protective suit.

**Hand protection**

Recommended: butyl rubber. . Breakthrough time: > 480 minutes (Class 6)

**Eye protection**

Use face shield. Use safety glasses with a side shield as an alternative.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Form	Colour	Odour	pH	Viscosity	Density (g/cm <sup>3</sup> )
Liquid	Pale yellow	Characteristic	-	20000 mm <sup>2</sup> /sek	1,12

**Phase changes**

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	202	0,04

**Data on fire and explosion hazards**

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
95	-	-
Explosion limits (Vol %)	Oxidizing properties	
-	-	

**Solubility**

Solubility in water	n-octanol/water coefficient
	-

**9.2. Other information**

Solubility in fat	Additional information
-	

**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 on "Handling and storage".

**10.3. Possibility of hazardous reactions**

No special

**10.4. Conditions to avoid**

Do not expose to heat (e.g. sunlight), because it can lead to excess pressure.

**10.5. Incompatible materials**

Strong acids, strong bases, strong oxidising agents, and strong catabolic 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
No data available.				

**Skin corrosion/irritation**

Causes skin irritation.

**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**

May damage fertility or the unborn child.

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Long term effects**

Reproductive toxicity: This product contains teratogenic substances which can do long-term damage to human offspring. The effects on the child can be: death, deformity, delayed development, and functional disorders.

Reproductive toxicity: This product contains substances which can do damage to reproductive capacity, e.g. damage to germ cells or hormonal regulation. The effects can be: sterility, reduced fertility, menstruation disorders, etc.

Carcinogenic effects: This product contains substances which are considered or proven to be carcinogenic. The substances are either classified as carcinogenic or are listed by the Danish Working Environment Authority as substances thought to be carcinogenic. These substances are all covered by the DWEA's regulations on work involving the risk of cancer. The danger may lie in inhalation, skin contact or ingestion.

Neurotoxic effect: This product contains organic solvents, which can have an effect on the nervous system. Symptoms of neurotoxicity can be: loss of appetite, headache, dizziness, whistling in the ears, tingling sensations in the 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. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Substance	Species	Test	Test duration	Result
No data available.				

**12.2. Persistence and degradability**

Substance	Biodegradability	Test	Result
No data available.			

**12.3. Bioaccumulative potential**

Substance	Potential bioaccumulation	LogPow	BFC
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**

No special

**SECTION 13: Disposal considerations**

According to EC-Regulation 1907/2006 (REACH)

### 13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

#### Waste

EWC code

08 04 09

#### Specific labelling

-

#### Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

## SECTION 14: Transport information

Not listed as dangerous goods under ADR and IMDG regulations.

### 14.1 – 14.4

ADR/RID	14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group		Notes	
IMDG	UN-no.	Proper Shipping Name	Class	PG*	EmS	MP**	Hazardous constituent

### 14.5. Environmental hazards

-

### 14.6. Special precautions for user

-

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 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 must not be exposed to this product cf. Council Directive 94/33/EC. Only for industrial use.

#### Demands for specific education

-

#### Additional information

-

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information'

### Sources

EC regulation 1907/2006 (REACH)

Directive 2000/532/EC

EC Regulation 1272/2008 (CLP)

### Full text of H/R-phrases as mentioned in section 3

R12 - Extremely flammable.

R45 - May cause cancer.

R61 - May cause harm to the unborn child.

R36/37/38 - Irritating to eyes, respiratory system and skin.

H220 - Extremely flammable gas.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H350 - May cause cancer.

H360 - May damage fertility or the unborn child.

**The full text of identified uses as mentioned in section 1**

**Other symbols mentioned in section 2**

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**Other**

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)) is marked with a blue triangle.

**The safety data sheet is validated by**

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

23-05-2014

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

27-06-2014