

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

PT Neutral Lye

**Product no.**

23

**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**

Lye for wood

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**

NOWOCOAT INDUSTRIAL A/S

Gl. Donsvej 6

6000 Kolding

tlf: +45 75 50 11 11

mail@nowocoat.dk

**Contact person**

Joen Reinert

**E-mail**

joen@nowocoat.dk

**SDS date**

07-03-2013

**SDS Version**

1.0

### 1.4. Emergency telephone number

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

This product is not classified as dangerous.

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

### 2.2. Label elements

**Hazard pictogram(s)**

-

**Hazard statement(s)**

-

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

<b>Safety statement(s)</b>	General	-
	Prevention	-
	Response	-
	Storage	-
	Disposal	-

### 2.3. Other hazards

This product contains an organic solvent. Repeated exposure to organic solvents can result in damage to the nervous system and inner organs, such as the liver and kidneys.

**Additional labelling**

Safety data sheet available on request.

#### Additional warnings

-

#### VOC

VOC-MAX: 20 g/l, MAXIMUM VOC CONTENT (Phase II, f (WB)): 130 g/l.

### SECTION 3: Composition/information on ingredients

#### 3.1/3.2. Substances

NAME:	water
IDENTIFICATION NOS.:	CAS-no: 7732-18-5 EC-no: -
CONTENT:	60-80%
DSD CLASSIFICATION:	-
CLP CLASSIFICATION:	-
NAME:	titanium dioxide
IDENTIFICATION NOS.:	CAS-no: 13463-67-7 EC-no: 236-675-5
CONTENT:	5-15%
DSD CLASSIFICATION:	-
CLP CLASSIFICATION:	-
NAME:	2-(2-butoxyethoxy)ethanol
IDENTIFICATION NOS.:	CAS-no: 112-34-5 EC-no: 203-961-6 Index-no: 603-096-00-8
CONTENT:	1-5%
DSD CLASSIFICATION:	Xi;R36
CLP CLASSIFICATION:	Eye Irrit. 2 H319
NAME:	(2-methoxymethylethoxy)propanol
IDENTIFICATION NOS.:	CAS-no: 34590-94-8 EC-no: 252-104-2
CONTENT:	<1%
DSD CLASSIFICATION:	
CLP CLASSIFICATION:	NA
NOTE:	S

(\*) 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 immediately 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. If irritation continues, contact a doctor.

##### 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

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.

#### 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. Water jets should not be used, since they can spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

No special

#### 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

No specific requirements.

#### 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. 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

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.

##### Storage temperature

NA

#### 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

2-(2-butoxyethoxy)ethanol (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 10 ppm | 67.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 15 ppm | 101.2 mg/m<sup>3</sup>

##### DNEL / PNEC

DNEL ((2-methoxymethylethoxy)propanol): 65 mg/kg - Exposure: Dermal - Duration: Long term - systemic effect - Remarks: Workers

DNEL ((2-methoxymethylethoxy)propanol): 310 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: Long term - systemic effect - Remarks:

Workers

DNEL ((2-methoxymethylethoxy)propanol): 15 mg/kg - Exposure: Dermal - Duration: long term - Systemic effect - Remarks: General population

DNEL ((2-methoxymethylethoxy)propanol): 37,2 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: long term - Systemic effect - Remarks:

According to EC-Regulation 1907/2006 (REACH)

General population

DNEL ((2-methoxymethylethoxy)propanol): 1,67 mg/kg - Exposure: Oral - Duration: long term - Systemic effect - Remarks: General population

DNEL (titanium dioxide): 10 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: Long term - local effect - Remarks: Workers

DNEL (2-(2-butoxyethoxy)ethanol): 101,2 mg/l - Exposure: Inhalation - Duration: short term local - Remarks: Workers

DNEL (2-(2-butoxyethoxy)ethanol): 20 mg/kg - Exposure: Dermal - Duration: long term systemic - Remarks: Workers

DNEL (2-(2-butoxyethoxy)ethanol): 67,5 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: long term systemic - Remarks: Workers

DNEL (2-(2-butoxyethoxy)ethanol): 67,5 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: long term local - Remarks: Workers

DNEL (2-(2-butoxyethoxy)ethanol): 50,6 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: short term local - Remarks: General population

DNEL (2-(2-butoxyethoxy)ethanol): 10 mg/kg - Exposure: Dermal - Duration: long term systemic - Remarks: General population

DNEL (2-(2-butoxyethoxy)ethanol): 34 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: ong term systemic - Remarks: General population

DNEL (2-(2-butoxyethoxy)ethanol): 1,25 mg/kg - Exposure: Oral - Duration: ong term systemic - Remarks: General population

DNEL (2-(2-butoxyethoxy)ethanol): 34 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: long term local - Remarks: General population

PNEC ((2-methoxymethylethoxy)propanol): 19 mg/l - Exposure: Water - Duration: Single - Remarks: Fresh water

PNEC ((2-methoxymethylethoxy)propanol): 1,9 mg/l - Exposure: Water - Duration: Single - Remarks: Marine water

PNEC ((2-methoxymethylethoxy)propanol): 190 mg/l - Exposure: Water - Duration: Continuous - Remarks: Intermittent releases

PNEC (titanium dioxide): 0,127 mg/l - Exposure: Water - Duration: Single - Remarks: Fresh water

PNEC (titanium dioxide): 1 mg/l - Exposure: Water - Duration: Single - Remarks: Marin water

PNEC (titanium dioxide): 0,61 mg/l - Exposure: Water - Duration: Continuous - Remarks: Intermittent releases

PNEC (titanium dioxide): 100 mg/kg - Exposure: Soil - Duration: Single

PNEC (2-(2-butoxyethoxy)ethanol): 1 mg/l - Exposure: Water - Duration: Single - Remarks: Fresh water

PNEC (2-(2-butoxyethoxy)ethanol): 0,1 mg/l - Exposure: Water - Duration: Single - Remarks: Marine water

PNEC (2-(2-butoxyethoxy)ethanol): 3,9 mg/l - Exposure: Water - Duration: Continuous - Remarks: Intermittent releases

PNEC (2-(2-butoxyethoxy)ethanol): 0,4 mg/kg - Exposure: Soil - Duration: Single

## 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

No specific requirements.

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



#### Generally

Only CE-marked personal protection equipment should be used.

#### Respiratory Equipment

Recommended: NA, -, -

#### Skin protection

No specific requirements.

#### Hand protection

Recommended: Nitrile rubber. . Breakthrough time: See the manufacturer's instructions

#### 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	White	Mild	-	-	1,1

**Phase changes**

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	-	-

**Data on fire and explosion hazards**

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

**Solubility**

Solubility in water	n-octanol/water coefficient
Soluble	-

**9.2. Other information**

Solubility in fat	Additional information
-	N/A

**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
(2-methoxymethylethoxy)propano...	Rat	LD50	Oral	> 5000 mg/kg
(2-methoxymethylethoxy)propano...	Rat	LC50	Inhalation	> 275 ppm
(2-methoxymethylethoxy)propano...	Rat	LD50	Oral	> 5000 mg/kg
(2-methoxymethylethoxy)propano...	Rat	LC50	Inhalation	> 6,82 mg/m3
titanium dioxide				
titanium dioxide				

**Long term effects**

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.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Substance	Species	Test	Test duration	Result
(2-methoxymethylethoxy)propano...	Fish	LC50	96 h	> 1000 mg/l
(2-methoxymethylethoxy)propano...	Daphnia	LC50	48 h	> 1000 mg/l
(2-methoxymethylethoxy)propano...	Algae	EC50	72 h	> 969 mg/l
(2-methoxymethylethoxy)propano...	Fish	LC50	96 h	> 1000 mg/l
titanium dioxide	Fish	LC50	96 h	130 mg/l
2-(2-butoxyethoxy)ethanol	Daphnia	EC50	48 h	>100 mg/l
2-(2-butoxyethoxy)ethanol	Algae	EC50	96 h	>100 mg/l
2-(2-butoxyethoxy)ethanol				

**12.2. Persistence and degradability**

According to EC-Regulation 1907/2006 (REACH)

Substance	Biodegradability	Test	Result
2-(2-butoxyethoxy)ethanol	Yes	Modified OECD Screening Test	85%

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
(2-methoxymethylethoxy)propano...	No	0,0043	No data available
titanium dioxide	No	No data available	No data available
2-(2-butoxyethoxy)ethanol	No	0,905	No data available

### 12.4. Mobility in soil

(2-methoxymethylethoxy)propano...: Log Koc= 0,08180517, Calculated from LogPow (High mobility potential. ). 2-(2-butoxyethoxy)ethanol: Log Koc= 0,7950695, Calculated from LogPow (High mobility potential. ).

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

No special

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

This product is not covered by the regulations on dangerous waste.

#### Waste

EWC code

-

#### Specific labelling

-

#### Contaminated packing

No specific requirements.

## 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. For exceptions, see the Danish Working Environment Authority's Executive Order No. 239 of 6 April 2005.

#### Demands for specific education

-

#### ▼ Additional information

-

### 15.2. Chemical safety assessment

According to EC-Regulation 1907/2006 (REACH)

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

R36 - Irritating to eyes.  
H319 - Causes serious eye irritation.

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

### Other symbols mentioned in section 2

-

### 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

Joen Reinert

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

-

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

-

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