

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Clas Ohlson Knotting Solution

**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**

Primer

**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**

Clas Ohlson Ltd  
10-13 Market Place  
Kingston-upon-Thames  
UK-KT1 1JZ Surrey  
Tel. 845 3009 799

**Contact person**

**E-mail**

info@clasohlson.se

**SDS date**

2017-01-09

**SDS Version**

1.0

### 1.4. Emergency telephone number

111 (National Poisons Information Service (NPIS))

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

This product is not classified as dangerous.

### 2.2. Label elements

**Hazard pictogram(s)**

-

**Signal word**

-

**Hazard statement(s)**

-

**Safety statement(s)**

General	-
Prevention	-
Response	-
Storage	-
Disposal	-

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

-  
**2.3. Other hazards**

-  
**Additional labelling**

**Additional warnings**

-  
**VOC**

VOC-MAX: 30 g/l, MAXIMUM VOC CONTENT (A/g (WB)): 30 g/l.

## SECTION 3: Composition/information on ingredients

### 3.1/3.2. Substances/Mixtures

NAME:	2-(2-Butoxyethoxy)ethanol
IDENTIFICATION NOS.:	CAS-no: 112-34-5 EC-no: 203-961-6 REACH-no: 01-2119475104-44 Index-no: 603-096-00-8
CONTENT:	1-3%
CLP CLASSIFICATION:	Eye Irrit. 2 H319

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

### Other information

ATEmix(inhale, dust/mist) > 20  
ATEmix(dermal) > 2000  
ATEmix(oral) > 2000  
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,1576 - 0,2364

## 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 person into fresh air and stay with them.

#### 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

Not applicable

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

No special

### 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**

If the product is exposed to high temperatures, as in the case of fire, dangerous catabolic substances are produced. These are: 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**

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 13 with regard to the handling of waste. See section 8 for protective measures.

# **SECTION 7: Handling and storage**

## **7.1. Precautions for safe handling**

See section 8 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**

Store frost-free.

## **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-(2-Butoxyethoxy)ethanol): 67,5 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-(2-Butoxyethoxy)ethanol): 67,5 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL (2-(2-Butoxyethoxy)ethanol): 101,2 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (2-(2-Butoxyethoxy)ethanol): 83 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-(2-Butoxyethoxy)ethanol): 40,5 mg/m<sup>3</sup>

Exposure: Inhalation

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

DNEL (2-(2-Butoxyethoxy)ethanol): 50 mg/kg bw/day

Exposure: Dermal

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

DNEL (2-(2-Butoxyethoxy)ethanol): 40,5 mg/m<sup>3</sup>

According to EC-Regulation 2015/830

Exposure: Inhalation  
 Duration of Exposure: Long term – Local effects - General population  
 DNEL (2-(2-Butoxyethoxy)ethanol): 60,7 mg/m<sup>3</sup>  
 Exposure: Inhalation  
 Duration of Exposure: Short term – Local effects - General population  
 DNEL (2-(2-Butoxyethoxy)ethanol): 5 mg/kg bw/day  
 Exposure: Oral  
 Duration of Exposure: Long term – Systemic effects - General population  
 PNEC (2-(2-Butoxyethoxy)ethanol): 1,1 mg/l  
 Exposure: Freshwater  
 PNEC (2-(2-Butoxyethoxy)ethanol): 0,11 mg/l  
 Exposure: Marine water  
 PNEC (2-(2-Butoxyethoxy)ethanol): 4,4 mg/kg dw  
 Exposure: Freshwater sediment  
 PNEC (2-(2-Butoxyethoxy)ethanol): 0,44 mg/kg dw  
 Exposure: Marine water sediment  
 PNEC (2-(2-Butoxyethoxy)ethanol): 200 mg/l  
 Exposure: Sewage Treatment Plant  
 PNEC (2-(2-Butoxyethoxy)ethanol): 0,32 mg/kg dw  
 Exposure: Soil

## 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 above.

### Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values. 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

Use only CE marked protective equipment.

#### Respiratory Equipment

Dust, which is unhealthy, is produced when treated surfaces are grinded. Use respiratory protection if necessary (P2).

#### Skin protection

Use suitable protective clothing, for example overalls made of polypropylene or work clothes made of cotton/polyester.

#### Hand protection

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

#### Eye protection

Wear eye protection if there is a risk of splashes/dust in the eyes.

## SECTION 9: Physical and chemical properties

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

Form  
 Colour

Liquid  
 Blue

According to EC-Regulation 2015/830

Odour	Faint
pH	5
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	1,05
<b>Phase changes</b>	
Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
<b>Data on fire and explosion hazards</b>	
Flashpoint (°C)	No data available.
Ignition (°C)	No data available.
Self-ignition (°C)	No data available.
Explosion limits (Vol %)	No data available.
<b>Solubility</b>	
Solubility in water	Soluble
n-octanol/water coefficient	No data available.
<b>9.2. Other information</b>	
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 section 7.

### 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 oxidizing agents, and strong reductants 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

No data available.

#### Serious eye damage/irritation

No data available.

#### 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

No data available.

#### STOT-repeated exposure

No data available.

#### Aspiration hazard

No data available.

#### Long term effects

According to EC-Regulation 2015/830

No special

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Species	Test	Duration	Result
No data available.				

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
2-(2-Butoxyethoxy)ethanol	Yes	Modified MITI Test	85 %

### 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

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  
080112

#### Specific labelling

-

#### Contaminated packing

No specific requirements.

## SECTION 14: Transport information

### 14.1 – 14.4

Not listed as dangerous goods under ADR and IMDG regulations.

#### ADR/RID

14.1. UN number	-
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	-
14.4. Packing group	-
Notes	-
Tunnel restriction code	-

#### IMDG

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-
EmS	-
MP**	-
Hazardous constituent	-

#### IATA/ICAO

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-

According to EC-Regulation 2015/830

#### 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

-

##### Demands for specific education

-

##### Additional information

-

#### Sources

Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC.

EH40/2005 Workplace exposure limits and supplements from October 2007 and December 2011.

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 (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

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

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, see section 1)) is marked with a blue triangle.

#### The safety data sheet is validated by

ELGR

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

-

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

-