

## SAFETY DATA SHEET

Safety Data Sheet according to regulation (EC) No 1907/2006 & 1272/2008 and amendments

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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 PRODUCT IDENTIFIER**      **BECKOPOX™ EP 386w/52WA Liquid Coating Resin**

**Product Description:**                  Epoxy resin water soluble

### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

**Intended/Recommended Use:**      Binder

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Company:** Allnex Belgium SA/NV, Square Marie Curie 11, 1070 Brussels, BE.

**For Product and all Non-Emergency Information call** your local Allnex contact point or contact us at <http://www.allnex.com/contact>

**Local Contact Information:**          Allnex Belgium SA/NV, Anderlechtstraat, 33, 1620 Drogenbos, BE  
Telephone no.: +32 (0) 2-3345111

### 1.4 EMERGENCY TELEPHONE NUMBER (24 hours/day) - For emergency only involving spill, leak, fire, exposure or accident call:

**Asia Pacific:**

Australia: +61 2801 44558 (Carechem 24)  
China (PRC): +86(0)532-8388-9090 (NRCC)  
Japan: +81 345 789 341 (Carechem 24)  
New Zealand: +64 9929 1483 (Carechem 24)  
India: 000 800 100 7479 (toll free) or +65 3158 1198 (Carechem 24)  
Korea: +82 2 3479 8401 (Carechem 24)  
Malaysia: +60 3 6207 4347 (Carechem 24)  
Philippines: +63 2 231 2149 (Carechem 24)  
All Others: +65 3158 1074 (Carechem 24)

**Europe/Africa/Middle East (Carechem 24):**

Europe, Middle East, Africa, Israel: +44 (0) 1235 239 670  
Middle East, Africa (Arabic speaking countries): +44 (0) 1235 239 671

**Latin America:**

Brazil: +55-800-707-7022 (toll free) or +55-11-98149-0850 (Suatrans 24)  
Chile: +56 2 2582 9336 (Carechem 24)  
Mexico and all others: +52-555-004-8763 (Carechem 24)

**Canada and USA (Carechem 24 - Allnex29003-NCEC):** +1-866-928-0789 (toll free) or +1-215-207-0061

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### SECTION 2: HAZARDS IDENTIFICATION

## 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

**Classification according to Regulation (EC) No 1272/2008 and amendments**  
Not Classified

## 2.2 LABEL ELEMENTS

### Hazard Statements

EUH205 - Contains epoxy constituents. May produce an allergic reaction.

### Precautionary Statements

Precautionary statements on the label will be reduced as indicated in Regulation (EC) No 1272/2008, Article 28.

Not applicable

## 2.3 OTHER HAZARDS

Not applicable

## RESULTS OF PBT AND vPvB ASSESSMENT

Not determined

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Substance, Mixture or Article?** Mixture

### 3.2 MIXTURES

Component / CAS No.	%	EC-No	REACH Registration Number	REACH SVHC	Classification according to Regulation (EC) No 1272/2008 (CLP)	M-Factor
2-Propoxyethanol 2807-30-9	4 - 6	220-548-6	01-2119883539-19	-	Flam. Liq. 3 (H226) Acute Tox. 4 (H312) Eye Irrit. 2 (H319)	-

See Section 16 for full text of H phrases.

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

#### Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes. Hold eyelid(s) open during rinsing. Obtain medical advice if there are persistent symptoms.

#### Skin Contact:

Remove contaminated clothing and shoes without delay. Wash immediately with plenty of water. Do not reuse contaminated clothing without laundering. Get medical attention if pain or irritation persists after washing or if signs and symptoms of overexposure appear.

**Ingestion:**

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

**Inhalation:**

Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

None known

**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDS**

Not applicable

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**SECTION 5: FIREFIGHTING MEASURES**

**5.1 EXTINGUISHING MEDIA**

**Suitable Extinguishing Media:**

Use water spray or fog, carbon dioxide or dry chemical.

**Unsuitable Extinguishing Media:**

full water jet.

**5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

Keep containers cool by spraying with water if exposed to fire.

**5.3 ADVICE FOR FIREFIGHTERS**

**Protective Equipment:**

Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See MSDS Section 8 (Exposure Controls/Personal Protection).

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

**6.2 ENVIRONMENTAL PRECAUTIONS**

None known

**6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water.

**6.4 REFERENCES TO OTHER SECTIONS**

See Sections 8 and 13 for additional information.

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## SECTION 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Precautions:** Wash hands thoroughly after handling.

**Special Handling Statements:** Provide good ventilation of working area (local exhaust ventilation if necessary). During processing and handling of the product, comply with the indicative occupational exposure limit values.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a cool, dry, well ventilated place and keep container tightly closed. Keep away from sources of ignition - refrain from smoking. Take precautionary measures against electrostatic loading - earthing necessary during loading operations. Observe the general rules of industrial fire protection. Sensitive to frost.

**Storage Temperature:** Store at 5 - 25 °C

**Reason:** Quality.

**Storage Class (TRGS 510):** 10

### 7.3 SPECIFIC END USE(S)

Refer to Section 1 or Exposure Scenario if applicable.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

No OEL values have been established.

#### Biological Exposure Limit(s)

No values have been established.

#### Derived No Effect Level (DNEL):

##### 2-Propoxyethanol (2807-30-9)

Use	Route	DNEL	Units	Effects Type
Worker	Dermal	3.4	mg/kg/day	Long term, systemic
Worker	Inhalation	36	mg/m <sup>3</sup>	Long term, systemic
Consumer	Dermal	2.2	mg/kg/day	Long term, systemic
Consumer	Inhalation	7.7	mg/m <sup>3</sup>	Long term, systemic
Consumer	Oral	2.2	mg/kg/day	Long term, systemic

#### Predicted No Effect Concentration (PNEC):

##### 2-Propoxyethanol (2807-30-9)

Compartment	PNEC	Units
Fresh water	0.1	mg/L
Marine water	0.01	mg/L
Intermittent water release	1	mg/L
Sewage treatment plant	10	mg/L
Sediment (fresh water)	0.594	mg/kg
Sediment (marine water)	0.0594	mg/kg

Soil 0.0602 mg/kg

## 8.2 EXPOSURE CONTROLS

### Engineering Measures:

Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure.

### Respiratory Protection:

For operations where inhalation exposure can occur use an approved respirator. Recommendations are listed below. Other protective respiratory equipment may be used based on user's own risk assessment.

#### Recommended:

Full Face Mask with organic vapor cartridge, Type A filter (BP >65°C)

### Eye protection:

Wear eye/face protection such as chemical splash proof goggles or face shield.

### Skin Protection:

Avoid skin contact.

Wear impermeable gloves and suitable protective clothing.

### Hand protection:

Wear protective gloves. Recommendations are listed below. Other protective materials may be used based on user's own risk assessment. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Replace gloves immediately when torn or any change in appearance (dimension, color, flexibility etc.) is noticed.

#### Gloves for repeated or prolonged exposure - non exhaustive list:

Nitrile rubber (NBR), thickness: > 0.38 mm, break through time: > 480 min

#### Gloves for short term exposure/splash protection - non exhaustive list:

Nitrile rubber (NBR), thickness: > 0.38 mm, break through time: up to 480 min

The chemical resistance depends on the type of product and amount of product on the glove. Therefore gloves need to be changed when in contact with chemicals.

#### Not suitable gloves - non exhaustive list:

Nitrile rubber (NBR), thickness: 0.12 mm

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. Use PE gloves as under gloves for difficult situations like for instance: high exposure, unknown composition or unknown properties of the chemicals.

### Additional Advice:

Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. It is recommended that a shower be taken after completion of workshift especially if significant contact has occurred. Work clothing should then be laundered prior to reuse. Street clothing should be stored separately from work clothing and protective equipment. Work clothing and shoes should not be taken home.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<b>Colour:</b>	white
<b>Appearance:</b>	liquid
<b>Odor:</b>	glycol ether
<b>Odor Threshold:</b>	See Section 8 for exposure limits.
<b>pH:</b>	Not available
<b>Melting Point:</b>	Not available
<b>Boiling Point:</b>	60 - 100 °C
<b>Flash point:</b>	> 100 °C DIN EN ISO 2719
<b>Evaporation Rate:</b>	Not available
<b>Flammable Limits (% By Vol):</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>Vapour density:</b>	Not available
<b>Specific Gravity/Density:</b>	~ 1.08 g/cm <sup>3</sup> @ 20°C DIN EN ISO 2811-2
<b>Solubility In Water:</b>	4.3 mg/L @ 20 °C Solubility in water on isolated polymer
<b>Partition coefficient (n-octanol/water):</b>	3.8 OECD 117 Log Pow on isolated polymer
<b>Autoignition temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Viscosity (Kinematic):</b>	Not available
<b>Viscosity (Dynamic):</b>	300 - 1500 mPa.s @ 23 °C DIN EN ISO 3219

## 9.2 OTHER INFORMATION

<b>Fat Solubility (Solvent-Oil):</b>	Not available
<b>Percent Volatile (% by wt.):</b>	46 - 50 mostly water
<b>Solids Content:</b>	50 - 54 % DIN 55671
<b>Saturation In Air (% By Vol.):</b>	Not available
<b>Acid Number (mg KOH/g):</b>	Not available
<b>Hydroxyl Value (mg KOH/g):</b>	Not available
<b>Volatile Organic Content (1999/13/EC):</b>	~ 5.5 %

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## SECTION 10: STABILITY AND REACTIVITY

**10.1 REACTIVITY** No information available

**10.2 CHEMICAL STABILITY** Stable

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

**Polymerization:** Will not occur  
**Conditions To Avoid:** None known

**10.4 CONDITIONS TO AVOID** Avoid high temperatures.

**10.5 INCOMPATIBLE MATERIALS** amines, Avoid contact with acids and alkali's

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS** Carbon dioxide  
Carbon monoxide (CO)

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

**Likely Routes of Exposure:** Skin, Eyes, Oral.

**Acute toxicity - oral:** Not classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Acute toxicity - dermal:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Acute toxicity - inhalation:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Skin corrosion / irritation:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Serious eye damage / eye irritation:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Respiratory sensitization:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Skin sensitization:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Carcinogenicity:** Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

**Germ cell mutagenicity:** Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

**Reproductive toxicity:** Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

**Specific target organ toxicity (STOT) - single exposure:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Specific target organ toxicity (STOT) - repeated exposure:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Aspiration hazard:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

## PRODUCT TOXICITY INFORMATION

### ACUTE TOXICITY DATA

oral	rat	Acute LD50 14 day	> 2000 mg/kg
dermal	rabbit	Acute LD50	No data
inhalation	rat	Acute LC50 4 hr	No data

### LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	dermal	rabbit	Not irritating
Acute Irritation	eye	rabbit	Not irritating

### ALLERGIC SENSITIZATION

Sensitization	Skin	guinea pig	Not sensitizing By analogy with a product of similar composition.
Sensitization	respiratory	No data	

### SUBACUTE/SUBCHRONIC TOXICITY

Oral	rat	90-Day Repeated Dose Oral (Dietary) Toxicity in the Rat (OCED TG 408) 90 day	4000 mg/kg Actual NOEL By analogy with a product of similar composition.
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### GENOTOXICITY

### Assays for Gene Mutations

Ames Salmonella Assay

No data

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## HAZARDOUS INGREDIENT TOXICITY DATA

2-Propoxyethanol may cause moderate eye irritation. Repeated exposure to the skin may cause allergic reactions. Repeated prolonged overexposure to 2-propoxyethanol vapor may cause blood disorders. The oral LD50 in rats is 3 g/kg and the dermal LD50 in guinea pigs is 1 g/kg. The inhalation LC50 of the vapor is >2000 ppm (8.5 mg/L) after a 4-hour exposure to rats. 2-Propoxyethanol has produced teratogenic effects in animals at maternally toxic doses.

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## SECTION 12: ECOLOGICAL INFORMATION

### TOXICITY, PERSISTENCE AND DEGRADABILITY, BIOACCUMULATIVE POTENTIAL, MOBILITY IN SOIL, OTHER ADVERSE EFFECTS

This material is not classified as dangerous for the environment.  
This material is not readily biodegradable.

#### 12.1 ECOTOXICITY

##### ALGAE TEST RESULTS

**Test:** Growth Inhibition (OECD 201)

**Duration:** 72

**Species:** Pseudokirchneriella subcapitata

> 18.4 mg/l ErC50

Highest concentration tested based on TWA exposure concentrations

> 18.4 mg/l EbC50

Highest concentration tested based on TWA exposure concentrations

#### 12.2 PERSISTENCE AND DEGRADABILITY

##### DEGRADATION

**Test:** Closed Bottle (OECD 301D)

**Duration:** 28

**Procedure:** Ready biodegradability

0 %

This material is not readily biodegradable.

#### 12.3 BIOACCUMULATIVE POTENTIAL

Not available



**12.4 MOBILITY IN SOIL**

Not available

**12.5 RESULTS OF PBT AND vPvB ASSESSMENT**

Not determined

**12.6 OTHER ADVERSE EFFECTS**

Not available

**HAZARDOUS INGREDIENT TOXICITY DATA**

Component / CAS No.	Toxicity to Algae	Toxicity to Fish	Toxicity to Water Flea
2-Propoxyethanol 2807-30-9	Not available	Not available	Not available

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 WASTE TREATMENT METHODS**

The company encourages the recycle and reuse of products and packaging, where possible and permitted.

**Product disposal**

When recycle or reuse is not possible, the company recommends that our products, especially when classified as hazardous, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed. For disposal within the European Community, waste codes according to Directive 2008/98/EC should be assigned by the user based on the application for which the product was used.

**Packaging disposal**

Handle contaminated packages in the same way as the product itself. Disposal of emptied and cleaned packaging must be made in accordance with applicable local and national regulations.

**Disposal-relevant information**

Do not release directly or indirectly to surface water, ground water, soil or public sewage system.

**SECTION 14: TRANSPORT INFORMATION**

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

**SUBSECTION 14.1 TO 14.5**

**ADR/RID/ADN**

Dangerous Goods? Not applicable/Not regulated

**IMO**

Dangerous Goods? Not applicable/Not regulated

**ICAO / IATA**

Dangerous Goods? Not applicable/Not regulated

**14.6 SPECIAL PRECAUTIONS FOR USER**

Sensitive to frost, don't store over +25°C.

## 14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

No information available

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## SECTION 15: REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

**Ozone Depleting Substances (Regulation (EC) No 1005/2009):** Not applicable

**Persistent Organic Pollutants (Regulation (EC) No 850/2004):** Not applicable

**Prior Informed Consent (Regulation (EC) No 689/2008):** Not applicable

**Substances subject to Authorization (Annex XIV of Regulation (EC) No 1907/2006):** Not applicable

**Substances subject to Restrictions for certain applications(Annex XVII of Regulation(EC)No 1907/2006):** Yes  
Refer to Annex XVII of REACH for details of the restricted applications.

2-Propoxyethanol (4 - 6 %)

This substance is a flammable restricted for aerosols under item 40.

**Water Endangering Class (Germany):** 1 according to VwVwS, 17.05.1999

#### Inventory Information

**European Economic Area (including EU):** When purchased from an Allnex legal entity based in the EEA (EU or Norway), this product is compliant with the registration of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, pre-registered and/or registered.

**United States (USA):** All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

**Canada:** All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

**Australia:** All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on AICS.

**China:** One or more components of this product are NOT included on the Chinese (IECSC) inventory. The company has obtained the required notification approvals from the Ministry of Environmental Protection (MEP) as per the "Environmental Administrative Measures for New Chemical Substance" for the component(s) not listed in the Chinese Inventory (IECSC). The product can be imported/manufactured in China ONLY under specific conditions.

**Japan:** All components of this product are included on the Japanese (ENCS and ISHL) inventories or are not required to be listed on the Japanese inventories.

**Korea:** All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory.

**Philippines:** One or more components of this product are NOT included on the Philippine (PICCS) inventory.

**Taiwan:** All components of this product are included in the Taiwan chemical substance inventory or are not required to be listed on the Taiwan chemical substance inventory (TCSI).

**Switzerland:** All components of this product are exempt from the new substance notification requirements for Switzerland (SR 813.11 art. 24-26).

### 15.2 CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out.

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## SECTION 16: OTHER INFORMATION

**Reasons for Issue:** New Logo

**Date Prepared:** 25-Dec-2016

**Date of last significant revision:** 25-Nov-2016

Classification methods include one or more of the following: use of specific product data, read-across data, modeling, professional judgment or a component based evaluation.

### Component - Hazard Statements

#### 2-Propoxyethanol

H226 - Flammable liquid and vapour.

H312 - Harmful in contact with skin.

H319 - Causes serious eye irritation.

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Prepared By: Product Stewardship & Regulatory Affairs Department, <http://www.allnex.com/contact>

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