



## SAFETY DATA SHEET

### IKOPro EasySeal Bonding Agent

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010  
Revision 1.0

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

##### 1.1. Product identifier

**Product name** IKOPro EasySeal Bonding Agent  
**Product number** 023500005

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

**Identified uses** Adhesive.  
**Uses advised against** No specific uses advised against are identified.

##### 1.3. Details of the supplier of the safety data sheet

**Supplier** IKO PLC  
Appley Lane North  
Appley Bridge  
Wigan  
Lancashire  
WN6 9AB  
  
uktechnical@iko.com

##### 1.4. Emergency telephone number

**Emergency telephone** +44 (0)1257 256864 Opening Times: 0900 - 1700 Monday to Friday

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification

**Physical hazards** Flam. Liq. 2 - H225  
**Health hazards** Skin Irrit. 2 - H315 STOT SE 3 - H336 STOT SE 3 - H336  
**Environmental hazards** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

**Human health Environmental** The liquid may be irritating to skin.

**Physicochemical** The product contains a substance which is harmful to aquatic organisms.  
The product is highly flammable. Vapours may form explosive mixtures with air.

## 2.2. Label elements

### Pictogram



### Signal word

Danger

### Hazard statements

H410 Very toxic to aquatic life with long lasting effects.  
H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe vapours.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P501 Dispose of contents/container in accordance with national regulations.

### Contains

CYCLOHEXANE, hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane, ETHYL ACETATE

## 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>CYCLOHEXANE</b>		<b>30-60%</b>
CAS number: 110-82-7	EC number: 203-806-2	REACH registration number: 01-2119463273-41-0000
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b>		
Flam. Liq. 2 - H225		
Acute Tox. 4 - H312		
Skin Irrit. 2 - H315		
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
<b>hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>		<b>10-30%</b>
CAS number: —	EC number: 921-024-6	REACH registration number: 01-2119475514-35
<b>Classification</b>		
Flam. Liq. 2 - H225		
Skin Irrit. 2 - H315		
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
STOT SE 3 - H336		
Aquatic Chronic 2 - H411		

<b>ETHYL ACETATE</b> <span style="float: right;"><b>1-5%</b></span>		
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01-2119475103-46-0017
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
<b>HEXANE-norm</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 110-54-3	EC number: 203-777-6	REACH registration number: 01-2119480412-44
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361f STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		
<b>ETHYLBENZENE</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 100-41-4	EC number: 202-849-4	
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H332		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### **SECTION 4: First aid measures**

##### **4.1. Description of first aid measures**

<b>General information</b>	Get medical attention if any discomfort continues.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Vapours may cause headache, fatigue, dizziness and nausea.
<b>Ingestion</b>	May cause discomfort if swallowed. May cause stomach pain or vomiting.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation.



**Eye contact** May cause temporary eye irritation.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** The product is flammable. Heating may generate flammable vapours. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m<sup>3</sup>. The product is highly flammable.

**Hazardous combustion products** Does not decompose when used and stored as recommended.

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

**Protective actions during firefighting** Control run-off water by containing and keeping it out of sewers and watercourses. Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.

**Special protective equipment for firefighters** Wear chemical protective suit.

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

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

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

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Do not discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.

#### **6.4. Reference to other sections**

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

### **SECTION 7: Handling and storage**

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

**Usage precautions** Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

#### **7.2. Conditions for safe storage, including any incompatibilities**



**Storage precautions** Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container.

**Storage class** Flammable liquid storage.

**7.3. Specific end use(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**SECTION 8: Exposure Controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

**CYCLOHEXANE**

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 300 ppm 1050 mg/m<sup>3</sup>

**ETHYL ACETATE**

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

**HEXANE-norm**

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

**ETHYLBENZENE**

Long-term exposure limit (8-hour TWA): WEL 100 ppm(Sk) 441 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 125 ppm(Sk) 552 mg/m<sup>3</sup>(Sk)

WEL = Workplace Exposure Limit

**Ingredient comments** WEL = Workplace Exposure Limits

**CYCLOHEXANE (CAS: 110-82-7)**

**DNEL** Consumer - Oral; Long term systemic effects: 59.4 mg/kg bw/day  
Consumer - Dermal; Long term systemic effects: 1186 mg/kg bw/day  
Workers - Dermal; Long term systemic effects: 2016 mg/kg bw/day  
Consumer - Inhalation; Short term local effects: 412 mg/m<sup>3</sup>  
Consumer - Inhalation; Short term systemic effects: 412 mg/m<sup>3</sup>  
Workers - Inhalation; Short term local effects: 700 mg/m<sup>3</sup>  
Workers - Inhalation; Short term systemic effects: 700 mg/m<sup>3</sup>  
Consumer - Inhalation; Long term local effects: 206 mg/m<sup>3</sup>  
Workers - Inhalation; Long term local effects: 700 mg/m<sup>3</sup>  
Consumer - Inhalation; Long term systemic effects: 206 mg/m<sup>3</sup>  
Workers - Inhalation; Long term systemic effects: 700 mg/m<sup>3</sup>

**PNEC** - Fresh water; 0.207 mg/l  
- Sediment (Freshwater); 3.627 mg/kg  
- STP; 3.24 mg/l  
- Soil; 2.99 mg/kg

**hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane**

**Ingredient comments** WEL = Workplace Exposure Limits

**ETHYL ACETATE (CAS: 141-78-6)**

<b>DNEL</b>	<p>Workers - Inhalation; Short term systemic effects: 1468 mg/m<sup>3</sup></p> <p>Workers - Inhalation; Short term local effects: 1468 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Short term systemic effects: 734 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Short term local effects: 374 mg/m<sup>3</sup></p> <p>Workers - Inhalation; Long term local effects: 734 mg/m<sup>3</sup></p> <p>Workers - Dermal; Long term systemic effects: 63 mg/kg bw/day</p> <p>Workers - Inhalation; Long term systemic effects: 734 mg/m<sup>3</sup></p> <p>Consumer - Dermal; Long term systemic effects: 37 mg/kg bw/day</p> <p>Consumer - Inhalation; Long term systemic effects: 367 mg/m<sup>3</sup></p> <p>Consumer - Oral; Long term systemic effects: 4.5 mg/kg bw/day</p> <p>Consumer - Inhalation; Long term local effects: 367 mg/m<sup>3</sup></p>
<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 0.26 mg/l</li> <li>- Marine water; 0.026 mg/l</li> <li>- Intermittent release; 1.65 mg/l</li> <li>- Sediment (Freshwater); 1.25 mg/kg</li> <li>- Sediment (Marinewater); 0.125 mg/kg</li> <li>- Soil; 0.24 mg/kg</li> <li>- STP; 650 mg/l</li> </ul>

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

### Eye/face protection

The following protection should be worn: Chemical splash goggles.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.

### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash contaminated clothing before reuse. Wash hands after handling. Eating, smoking and water fountains prohibited in immediate work area.

### Respiratory protection

In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type AX.

### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Coloured liquid.
<b>Colour</b>	Various colours.
<b>Odour</b>	aromatic hydrocarbons

<b>Initial boiling point and range</b>	Estimated value. 62-100°C @
<b>Flash point</b>	Estimated value. -35°C
<b>Evaporation rate</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Estimated value. : 0.6% - 13%
<b>Relative density</b>	0.80 @ 20°C
<b>Solubility(ies)</b>	Insoluble in water.
<b>Viscosity</b>	Kinematic viscosity > 20.5 mm <sup>2</sup> /s.

## 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability** No particular stability concerns. Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not applicable. Not relevant.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

#### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Strong acids. Strong alkalis.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Toxicological information on ingredients.

#### CYCLOHEXANE

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rat

**ATE oral (mg/kg)** 5,000.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

Species Rabbit  
ATE dermal (mg/kg) 2,000.0

hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane

Toxicological effects No information available.

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,840.0

Species Rat

Notes (oral LD<sub>50</sub>) Not known. Data lacking.

ATE oral (mg/kg) 5,840.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,920.0

Species Rat

Notes (dermal LD<sub>50</sub>) Data lacking.

ATE dermal (mg/kg) 2,920.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 25.2

Species Rat

ATE inhalation (vapours mg/l) 25.2

Skin corrosion/irritation

Animal data Data lacking.

Serious eye damage/irritation

Serious eye damage/irritation Data lacking.

Aspiration hazard

Aspiration hazard Kinematic viscosity > 20.5 mm<sup>2</sup>/s.

Inhalation May cause respiratory system irritation.

Ingestion May cause stomach pain or vomiting.

Skin contact Irritating to skin.

Eye contact May cause severe eye irritation.

Acute and chronic health hazards Vapour from this product may be hazardous by inhalation.



<b>Route of entry</b>	Inhalation Skin absorption Ingestion. Skin and/or eye contact
<b>Target organs</b>	No specific target organs known.
<b>Medical symptoms</b>	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.
<b>Medical considerations</b>	No information available.

## SECTION 12: Ecological Information

### Ecological information on ingredients.

#### hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane

<b>Ecotoxicity</b>	Dangerous for the environment.
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### 12.1. Toxicity

#### Ecological information on ingredients.

#### CYCLOHEXANE

##### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

**M factor (Acute)** 1

**Acute toxicity - fish** LC<sub>0</sub>, 96 hours: 4.53 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>0</sub>, 48 hours: 0.9 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>0</sub>, 72 hours: 3.4 mg/l, Algae

**Acute toxicity - microorganisms** EC<sub>50</sub>, 20 hours: 29 mg/l, Bacteria

##### Chronic aquatic toxicity

**M factor (Chronic)** 1

#### hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane

**Acute toxicity - fish** LC<sub>0</sub>, hours: >1-<10 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 3 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** LC<sub>0</sub>, hours: >1-<10 mg/l, Algae

### 12.2. Persistence and degradability

### 12.3. Bioaccumulative potential

#### Ecological information on ingredients.

#### CYCLOHEXANE

**Bioaccumulative potential** BCF: 167,

#### 12.4. Mobility in soil

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### 12.6. Other adverse effects

**Other adverse effects** None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID) 1133

UN No. (IMDG) 1133

UN No. (ICAO) 1133

UN No. (ADN) 1133

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID) ADHESIVES

Proper shipping name (IMDG) ADHESIVES

Proper shipping name (ICAO) ADHESIVES

Proper shipping name (ADN) ADHESIVES

#### 14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ADN packing group	II
ICAO packing group	II

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	2
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>National regulations</b>	Health and Safety at Work etc. Act 1974 (as amended). The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Classification Labelling and Packaging Regulations 2008 Control of Substances Hazardous to Health Regulations 2002 (as amended).
<b>EU legislation</b>	Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work. 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) (as amended).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### **SECTION 16: Other information**

Issued by	Supplier
Revision date	12/03/2018
Revision	1
SDS number	23500005



<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
<b>Store Between</b>	Store Between 5'c - 25'c
<b>Contains SVHC</b>	NO