



## IKO SYSTEMS BONDING AGENT

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

- 1.1 Product identifier :** IKO Systems Bonding Agent  
**Product Code:** 23500015  
**UFI:** D38F-CQ1C-P52U-MC0N
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
**Use of substance / mixture:** Adhesive.
- 1.3 Details of the supplier of the safety data sheet**  
IKO PLC  
Appley Lane North  
Appley Bridge, Wigan  
Lancashire WN6 9AB  
  
Tel: 01257 256779  
  
[www.ikogroup.co.uk](http://www.ikogroup.co.uk)
- 1.4 Emergency telephone number**  
  
**Tel:** +44 (0)1257 256864 Opening Times: 0900 - 1700 Monday to Friday

### SECTION 2: Hazards Identification

#### 2.1 Classification of the substance or mixture

**Classification under CLP:** Aquatic Chronic 1: H410; Flam. Liq. 2: H225; Skin Irrit. 2: H315; STOT SE 3: H336;  
Aquatic Acute 1: H400

**Most important adverse effects:** Highly flammable. Irritating to skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

#### 2.2 Label elements

**Label elements under CLP:**

**Hazard statements:** H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H410: Very toxic to aquatic life with long lasting effects.

**Signal words:** Danger

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**Hazard pictograms:**



GHS02: Flame

GHS09: Environmental

GHS07: Exclamation mark

**Precautionary statements:** P260: Do not breathe vapours.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P501: Dispose of contents/container to national regulations.

### 2.3 Other hazards

**Other hazards:** In use, may form flammable / explosive vapour-air mixture.

**PBT:** This product is not identified as a PBT/vPvB substance.



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## SECTION 3: Composition / Information on Ingredients

### 3.1 Substances

### 3.2 Mixtures

#### CYCLOHEXANE

EINECS	CAS	CLP Classification	Percent
203-806-2	110-82-7	Flam. Liq. 2: H225; Asp. Tox. 1: H304; Skin Irrit. 2: H315; STOT SE 3: H336; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	30-50%

#### HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS <5% N-HEXANE

-	-	-	10-30%
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#### ETHYL ACETATE - REACH registered number(s): 01-2119475103-46

205-500-4	141-78-6	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	1-10%
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#### N-HEXANE

203-777-6	110-54-3	Flam. Liq. 2: H225; Repr. 2: H361f; Asp. Tox. 1: H304; STOT RE 2: H373; Skin Irrit. 2: H315; STOT SE 3: H336; Aquatic Chronic 2: H411	<1%
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## SECTION 4: First Aid Measures

### 4.1 Description of first aid measures

- Skin contact:** Remove from skin with paper or towel. Wash effected area thoroughly with soap and water. Seek medical advice if symptoms persist.
- Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.
- Ingestion:** Wash out mouth with water. Consult a doctor.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor if symptoms persist.

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

- Skin contact:** There may be irritation and redness at the site of contact.
- Eye contact:** There may be irritation and redness. The eyes may water profusely.
- Ingestion:** There may be soreness and redness of the mouth and throat.
- Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
- Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

### 4.3 Indication of any immediate medical attention and special treatments needed

**Immediate / special treatment:** Not applicable.



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## SECTION 5: Firefighting Measures

### 5.1 Extinguishing media

**Extinguishing media:** Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

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

**Exposure hazards:** Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

### 5.3 Advice for fire fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## SECTION 6: Accidental Release Measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

### 6.2 Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

### 6.3 Methods and materials for containment and clearing up

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

### 6.4 References to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

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

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

**Suitable packaging:** Must only be kept in original packaging.

### 7.3 Specific end uses(s)

No current data available



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## SECTION 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

Hazardous ingredients:

#### CYCLOHEXANE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	350 mg/m <sup>3</sup>	1050 mg/m <sup>3</sup>	-	-

#### ETHYL ACETATE

UK	200 ppm	400 ppm	-	-
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#### N-HEXANE

UK	72 mg/m <sup>3</sup>	-	-	-
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DNEL / PNEC – No data available

### 8.2 Exposure controls

- Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
- Respiratory protection:** If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.
- Hand protection:** Avoid skin contact. For repeated exposure use Viton or 4H chemical gloves. for low exposure use nitrile gloves. The user has a legal duty to carry out a COSHH risk assessment to determine the correct glove.
- Eye protection:** Safety glasses. Ensure eye bath is to hand.
- Skin protection:** Protective clothing.
- Environmental:** No special requirement.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>State:</b>	Paste
<b>Colour:</b>	Black
<b>Evaporation rate:</b>	Fast
<b>Oxidising:</b>	Non-oxidising (by EC criteria)
<b>Solubility in water:</b>	Insoluble
<b>Viscosity:</b>	Non-viscous
<b>Boiling point/range°C:</b>	56
<b>Flammability limits %:</b>	lower: 0.6                      upper: 13                      Flash point°C: -18
<b>Autoflammability°C:</b>	275                                      Relative density: 0.83

### 9.2 Other information

No Data available



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## SECTION 10: Chemical Stability and Reactivity

### 10.1 Reactivity

Reactivity: Stable under recommended transport or storage conditions.

### 10.2 Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

### 10.3 Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

### 10.4 Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames.

### 10.5 Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

### 10.6 Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes

## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
VAPOURS	RAT	4H LC50	>5	mg/l
ORAL	RAT	LD50	>2000	mg/kg
DERMAL	RBT	LD50	>2000	mg/kg

#### Hazardous ingredients:

##### CYCLOHEXANE

ORL	MUS	LD50	813	mg/kg
ORL	RAT	LD50	12705	mg/kg



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**ETHYL ACETATE**

ORL	MUS	LD50	4100	mg/kg
ORL	RAT	LD50	5620	mg/kg
SCU	RAT	LDLO	5	gm/kg

**N-HEXANE**

IPR	RAT	LDLO	9100	mg/kg
IVN	MUS	LDLO	831	mg/kg
ORL	RAT	LD50	25	gm/kg

**Relevant effects for mixture:**

Effect	Route	Basis
Irritation	DRM	Hazardous: calculated

**11.2 Symptoms, routes of Exposure**

- Skin contact:** There may be irritation and redness at the site of contact.  
**Eye contact:** There may be irritation and redness. The eyes may water profusely.  
**Ingestion:** There may be soreness and redness of the mouth and throat.  
**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.  
**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.  
**Other information:** Not applicable.



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## SECTION 12: Ecological Information

### 12.1 Toxicity

Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	>1-10	mg/l
ALGAE	96H LC50	>1-10	mg/l

### 12.2 Persistence and degradability

**Persistence and degradability:** Biodegradable in part only.

### 12.3 Bioaccumulative potential

**Bioaccumulative potential:** Bioaccumulation potential.

### 12.4 Mobility in soil

**Mobility:** Readily absorbed into soil.

### 12.5 Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6 Other adverse effects

**Other adverse effects:** Toxic to aquatic organisms.

## SECTION 13: Disposal Considerations

### 13.1 Waste treatment methods

**Disposal operations:** Wet waste: Arrange for disposal by a licenced waste disposal company  
**Disposal of packaging:** Arrange for disposal by a licenced waste disposal company

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## SECTION 14: Transport Information

14.1. UN number UN1133  
14.2. UN proper shipping name ADHESIVES  
14.3. Transport hazard class(es) 3  
14.4. Packing group II  
14.5. Environmental hazards **Environmentally hazardous:** Yes  
**Marine pollutant:** No

### 14.6. Special precautions for user

**Special precautions:** No special precautions.

**Tunnel code:** D/E

**Transport category:** 2





## SECTION 15: Regulatory Information

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

**Specific regulations:** This product is classified as a mixture. CLP classification for information only.

### 15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier

## SECTION 16: Other Information

### Other information:

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

### List of Abbreviations used in this SDS:

#### Phrases used in s.2 and s.3:

EUH066:	Repeated exposure may cause skin dryness or cracking.
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 <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H410:	Very toxic to aquatic life with long lasting effects.
H411:	Toxic to aquatic life with long lasting effects.

### Version History.

Version 1.0	June 1st 2015	New release for Classification, Labelling Packaging Regulations
Version 2.0	June 20th 2019	Revised Logo, Added UFI code (page 1)
Version 3.0	Nov. 27th 2019	Amended Precautionary Statements in s2

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