



Product name: Low Forming PU Adhesive

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Low Forming PU Adhesive

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

Company name: IKO PLC

Appley Lane North

Appley Bridge

Wigan

Lancashire

WN6 9AB

UK

Tel: 01257 256779

Web: www.ikogroup.co.uk

1.4. Emergency telephone number

Emergency 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 3: H412; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 2: H371; -: EUH208; -: EUH204

Most important adverse effects: Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label elements under CLP:

Hazard statements: EUH208: Contains dibutyltin dilaurate. May produce an allergic reaction.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

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H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351: Suspected of causing cancer .

H371: May cause damage to organs .

H373: May cause damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

EUH204: Contains isocyanates. May produce an allergic reaction.

Signal words: Danger

Hazard pictograms: GHS07: Exclamation mark

GHS08: Health hazard



Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

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

P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned: Get medical advice.

P309+311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used Medium VOC content 8 - 24.99%

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2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

DICHLOROMETHANE - REACH registered number(s): 01-2119480404-41-

EINECS	CAS	CLP Classification	Percent
200-838-9	75-09-2	Carc. 2: H351	10-30%

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES) - REACH registered number(s): 01-2119457024-46-0006, 01-2119457024-46-0007

-	9016-87-9	Carc. 2: H351; Acute Tox. 4: H332; STOT RE 2: H373; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317	10-30%
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DIBUTYLTIN DILAURATE

201-039-8	77-58-7	Acute Tox. 4: H302; Aquatic Chronic 1: H410; Muta. 2: H341; Repr. 1B: H360Df; Skin Corr. 1C: H314; Skin Sens. 1: H317; STOT RE 1: H372; STOT SE 1: H370; Aquatic Acute 1: H400	<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.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK,

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place in the recovery position. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat. There may be shortness of breath due to congestion of the lungs.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

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: 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. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes or gas. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

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6.4. Reference 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: Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.02mg/m ³	0.07mg/m ³	-	-

Hazardous ingredients:

DICHLOROMETHANE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	350 mg/m ³	1060 mg/m ³	-	-

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

UK	0.02 mg/m ³	0.07 mg/m ³	-	-
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DIBUTYLTIN DILAURATE

UK	0.1 mg/m ³	0.2 mg/m ³	-	-
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DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area.

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: Impermeable gloves. Avoid skin contact. For repeated exposure use Viton or 4H

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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****State:** Liquid**Colour:** Pink**Odour:** Characteristic odour**Evaporation rate:** Fast**Oxidising:** Non-oxidising (by EC criteria)**Solubility in water:** Reacts with water.**Viscosity:** Viscous**Relative density:** 1.1**9.2. Other information****Other information:** No data available.**Section 10: Stability and reactivity****10.1. Reactivity****Reactivity:** Stable under recommended transport or storage conditions.**10.2. Chemical stability****Chemical stability:** Stable under normal conditions.**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. 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**

Product name: Low Forming PU Adhesive

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg

Hazardous ingredients:**DICHLOROMETHANE**

ORL	MUS	LD50	4770	mg/kg
ORL	RAT	LD50	5350	mg/kg
SCU	MUS	LD50	6460	mg/kg

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

ORL	RAT	LD50	10,000	mg/kg
SKN	RBT	LD50	5,000	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT INH DRM	Hazardous: calculated
Sensitisation	INH DRM	Hazardous: calculated
Repeated dose toxicity	INH	Hazardous: calculated

Symptoms / routes of exposure**Skin contact:** There may be mild irritation at the site of contact.**Eye contact:** There may be irritation and redness.**Ingestion:** There may be irritation of the throat. There may be shortness of breath due to congestion of the lungs.**Inhalation:** Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath.**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.**Other information:** Not applicable.**Section 12: Ecological information****12.1. Toxicity****Ecotoxicity values:**

Species	Test	Value	Units
algae	NOEC	550	mg/l
fresh aquatic invertebrates	48H EC50	27	mg/l

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fresh water fish	96H LC50	193	mg/l
marine aquatic invertebrates	48H EC50	109	mg/l
marine water fish	96H LC50	97	mg/l

12.2. Persistence and degradability**Persistence and degradability:** Biodegradable in part only.**12.3. Bioaccumulative potential****Bioaccumulative potential:** No data available.**12.4. Mobility in soil****Mobility:** Volatile.**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:** No data available.**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****UN number:** UN2810**14.2. UN proper shipping name****Shipping name:** TOXIC LIQUID, ORGANIC, N.O.S.**14.3. Transport hazard class(es)****Transport class:** 6.1**14.4. Packing group****Packing group:** III**14.5. Environmental hazards****Environmentally hazardous:** No**Marine pollutant:** No**14.6. Special precautions for user****Special precautions:** No special precautions.**Tunnel code:** E

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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. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used

15.2. Chemical Safety Assessment

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.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH204: Contains isocyanates. May produce an allergic reaction.

EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H360Df: May damage the unborn child. Suspected of damaging fertility.

H370: Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H371: May cause damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

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H372: Causes 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>.

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.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Version History.

Version 1.0 June 1st 2015 New release for Classification, Labelling Packaging Regulations

