



Product name: IKOPRO Insulation PU Adhesive

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

1.1. Product identifier

Product name: IKOPRO Insulation 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 226779

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: 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; Acute Tox. 4: H332; STOT SE 3: H335; -: EUH204

Most important adverse effects: Harmful by inhalation. 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.

2.2. Label elements

Label elements under CLP:

Hazard statements: H315: Causes skin irritation.

H332: Harmful if inhaled.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

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

H335: May cause respiratory irritation.

H351: Suspected of causing cancer [].

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

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.

P285: In case of inadequate ventilation wear respiratory protection.

P281: Use personal protective equipment as required.

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

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

P342+311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P314: Get medical advice/attention if you feel unwell.

P501: Dispose of contents/container to national regulations.

Precautionary phrases: Contains isocyanates. See information supplied by the manufacturer.

2.3. Other hazards

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

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Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

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

EINECS	CAS	CLP Classification	Percent
-	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	30-50%

Section 4: First aid measures

4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Remove from skin with paper or towel. Wash effected area thoroughly with soap and water. Seek medical advice if symptoms persist. Seek medical help if symptoms persist
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Obtain medical help if there is difficulty breathing.

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

- Skin contact:** There may be irritation and redness at the site of contact. Onset of symptoms may be delayed
- Eye contact:** There may be irritation and redness.
- Ingestion:** Nausea and stomach pain may occur. There may be vomiting.
- Inhalation:** Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. Onset of symptoms may be delayed.
- 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: Carbon dioxide. Alcohol or polymer foam. Dry chemical powder.

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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: 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. Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Neutralise with dilute hydrochloric acid. Neutralise with water containing 1% wetting agent To avoid build up of pressure due to the evolution of carbon dioxide, do not seal containers until fully reacted.

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 sufficient ventilation of the area. Avoid direct contact with the substance.

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/m3	0.07mg/m3	-	-

Product name: IKOPRO Insulation PU Adhesive**Hazardous ingredients:****DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)****Workplace exposure limits:****Respirable dust**

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

DNEL/PNEC Values**DNEL / PNEC** No data available.**8.2. Exposure controls****Engineering measures:** Ensure there is exhaust ventilation of the area.**Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment. 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 goggles.**Skin protection:** Wear protective work clothing sufficient to avoid skin contact. Wash hands regularly, before breaks and at the end of the working day.**Environmental:** No special requirement.**Section 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****State:** Liquid**Colour:** Dark brown**Odour:** Characteristic odour**Evaporation rate:** Slow**Oxidising:** Non-oxidising (by EC criteria)**Solubility in water:** Reacts with water.**Viscosity:** Viscous**Flash point°C:** >200**Autoflammability°C:** >400**Vapour pressure:** <0.00001hPa**Relative density:** 1.12**9.2. Other information****Other information:** No data available.**Section 10: Stability and reactivity**

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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. Moist air.**10.5. Incompatible materials****Materials to avoid:** Water. Strong acids. Strong bases.**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
DERMAL	RBT	LD50	>9400	mg/kg
ORAL	RAT	LD50	>10000	mg/kg

Hazardous ingredients:**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
Acute toxicity (harmful)	INH	Hazardous: calculated
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 irritation and redness at the site of contact. Onset of symptoms may be delayed**Eye contact:** There may be irritation and redness.

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Ingestion: Nausea and stomach pain may occur. There may be vomiting.

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

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
Aquatic plants	72H EC50	1640	mg/l
Daphnia magna	24H EC50	>1000	mg/l
Sludge	3H EC50	>100	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	>1000	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: Reacts with water to form an insoluble polyurea. Do not discharge in to natural waters without pre-treatment.

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

Transport class: This product does not require a classification for transport.

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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.

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.

H351: Suspected of causing cancer <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>.

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.



Safety Data Sheet
According to EC Regulation 1907/2006
(REACH) & 1272/2008 (CLP) & 453/2010/
Version number 1.0

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Version History.

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