



**ArmourPlan PVC Contact Adhesive**  
**Safety Data Sheet**  
According to EC Regulation 1907/2006  
(REACH) & 1272/2008 (CLP) & 453/2010/  
*Version 4 Date of Issue 30/05/2022*

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

**1.1. Product identifier**

**Product name** IKO ArmourPlan PVC Contact Adhesive  
**Product number** 44335305, A03353  
**UFI** FPJU-SRDY-V346-GK0W R1U9-600G-D00E-PMP7

**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 / IKO Polymeric  
Head Office  
Appley Lane North  
Appley Bridge  
Wigan  
Lancashire  
WN6 9AB  
England

**1.4. Emergency telephone number**

**Emergency telephone** +44 01827 69662 (NOT 24HRS - 8am-5pm mon-fri )  
**National emergency telephone number** National Poisons Information Service (UK) TEL: 0844 892 0111

**SECTION 2: Hazards identification**

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

**Classification (EC 1272/2008)**

**Physical hazards** Flam. Liq. 2 - H225  
**Health hazards** Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H336  
**Environmental hazards** Not Classified  
**Human health** Vapours/aerosol spray may irritate the respiratory system.  
**Physicochemical** The product is highly flammable. Vapours may form explosive mixtures with air.

**2.2. Label elements**



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**Hazard pictograms**



**Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
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.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P281 Use personal protective equipment as required.  
P284 [In case of inadequate ventilation] wear respiratory protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P313 Get medical advice/ attention.  
P501 Dispose of contents/ container in accordance with national regulations.

**Contains**

butanone, ACETONE, Formaldehyde, oligomeric reaction products with phenol.

**2.3. Other hazards**

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

<b>butanone</b> <span style="float: right;"><b>30-60%</b></span>		
CAS number: 78-93-3	EC number: 201-159-0	REACH registration number: 01-2119457290-43-0000
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
<b>ACETONE</b> <span style="float: right;"><b>10-30%</b></span>		
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-2119471330-49-0000
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		



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<b>Formaldehyde, oligomeric reaction products with phenol.</b> <span style="float: right;"><b>5-10%</b></span> CAS number: 9003-35-4                      EC number: 500-005-2                      REACH registration number: 01-2120735197-51-0000
<b>Classification</b> Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412
<b>VINYL CHLORIDE / VINYL ACETATE / MALEIC ACID TERPOLYMER</b> <span style="float: right;"><b>1-5%</b></span> CAS number: 9005-09-8
<b>Classification</b> Eye Irrit. 2 - H319 STOT SE 3 - H335
<b>VINYL ACETATE</b> <span style="float: right;"><b>&lt;1%</b></span> CAS number: 108-05-4                      EC number: 203-545-4                      REACH registration number: 01-2119471301-50-0000
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H332 Carc. 2 - H351 STOT SE 3 - H335
<b>VINYL CHLORIDE</b> <span style="float: right;"><b>&lt;1%</b></span> CAS number: 75-01-4                      EC number: 200-831-0                      REACH registration number: 01-2119458772-30-0042
<b>Classification</b> Flam. Gas 1A - H220 Press. Gas Carc. 1A - H350

The full text for all hazard statements is 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**



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<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.
<b>Eye contact</b>	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**



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**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**

**butanone**

Long-term exposure limit (8-hour TWA): WEL 200 ppm 600 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 300 ppm 899 mg/m<sup>3</sup>

Sk, BMGV

**ACETONE**

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m<sup>3</sup>

**VINYL ACETATE**

Long-term exposure limit (8-hour TWA): WEL 5 ppm 17.6 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 10 ppm 35.2 mg/m<sup>3</sup>

**VINYL CHLORIDE**

Long-term exposure limit (8-hour TWA): WEL 3 ppm

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

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

BMGV = Biological monitoring guidance value.

**Ingredient comments** WEL = Workplace Exposure Limits

**butanone (CAS: 78-93-3)**

**Ingredient comments** WEL = Workplace Exposure Limits

**Biological limit values** Short Term Value: 300ppm Long Term Value: 200ppm

**DNEL** Consumer - Oral; Long term systemic effects: 31 mg/kg bw/day  
Consumer - Dermal; Long term systemic effects: 412 mg/kg bw/day  
Workers - Dermal; Long term systemic effects: 1161 mg/kg bw/day  
Consumer - Inhalation; Long term systemic effects: 106 mg/m<sup>3</sup>  
Workers - Inhalation; Long term systemic effects: 600 mg/m<sup>3</sup>



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#### PNEC

- Fresh water; 55.8 mg/l
- Sediment (Freshwater); 284.7 mg/kg
- Intermittent release; 55.8 mg/l
- Sediment (Marinewater); 284.7
- marine water; 55.8 mg/l
- STP; 709 mg/l
- Soil; 22.5 mg/kg

#### ACETONE (CAS: 67-64-1)

#### Ingredient comments

WEL = Workplace Exposure Limits

#### 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. Provide adequate general and local exhaust ventilation. 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: ABEK2-P3

##### 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

Appearance	Liquid.
Colour	Amber.
Odour	Characteristic.
Odour threshold	Not available.
pH	Not available.
Melting point	Not available.
Initial boiling point and range	55-57°C Estimated value.



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Flash point	-18°C Estimated value.
Evaporation rate	Not determined.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.8% v/v Upper flammable/explosive limit: 13% v/v
Other flammability	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.83 @ 20°C
Bulk density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	515°C
Decomposition Temperature	Not available.
Viscosity	Kinematic viscosity > 20.5 mm <sup>2</sup> /s.
Explosive properties	Not available.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not available.
Comments	Information given is applicable to the product as supplied.

#### 9.2. Other information

Other information	No information required.
Refractive index	Not available.
Particle size	Not available.
Molecular weight	Not available.
Volatility	Not available.
Saturation concentration	Not available.
Critical temperature	Not available.

#### **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



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**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.**

**butanone**

**Acute toxicity - inhalation**

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 20.0

**ATE inhalation (vapours mg/l)** 20.0

**ACETONE**

**Other health effects** There is no evidence that the product can cause cancer.

**Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,800.0

**Species** Rat

**ATE oral (mg/kg)** 5,800.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 7,426.0

**Species** Rat

**ATE dermal (mg/kg)** 7,426.0

**Acute toxicity - inhalation**

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 50,100.0

**Species** Rat

**ATE inhalation (vapours mg/l)** 50,100.0

**Skin corrosion/irritation**





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Extreme pH Slightly irritating.

Serious eye damage/irritation

Serious eye damage/irritation Moderately irritating.

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

SECTION 12: Ecological information

12.1. Toxicity

Ecological information on ingredients.

butanone

Acute aquatic toxicity

Acute toxicity - fish LC50, EC50, IC50, : 100 mg/l, Fish

Acute toxicity - aquatic plants LC50, EC50, IC50, : 100 mg/l, Algae

ACETONE

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 5540 mg/l, Freshwater fish, 96 hours: 11000 mg/l, Marinewater fish, LC50, 96 hours: 11000 mg/l, Fish

Acute toxicity - aquatic invertebrates EC50, 48 hours: 8800 mg/l, Daphnia magna, EC50, 48 hours: 8800 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC50, 72 hours: 430 mg/l, Algae

Acute toxicity - microorganisms, 30 minutes: 1000 mg/l, Activated sludge

12.2. Persistence and degradability

Ecological information on ingredients.

ACETONE

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Partition coefficient Not available.

Ecological information on ingredients.

ACETONE

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating. BCF: 3,

Partition coefficient Pow: < -0.24



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**12.4. Mobility in soil**

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

**Ecological information on ingredients.**

**butanone**

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

**ACETONE**

**Mobility** The product is miscible with water and may spread in water systems.

**Adsorption/desorption coefficient** Water - log Koc: 1.5 @ 20°C

**Henry's law constant** 2929-3070 Pa m<sup>3</sup>/mol @ 25°C

**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.

**Ecological information on ingredients.**

**butanone**

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

**ACETONE**

**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.

**Ecological information on ingredients.**

**butanone**

**Other adverse effects** None known.

**ACETONE**

**Other adverse effects** Not applicable.

**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**



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#### 14.1. UN number

UN No. (ADR/RID) 1133

UN No. (IMDG) 1133

UN No. (ICAO) 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 label 3

IMDG class 3

ICAO class/division 3

Transport labels



#### 14.4. Packing group

ADR/RID packing group II

IMDG 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

Hazard Identification Number (ADR/RID) 33

Tunnel restriction code (D/E)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

### SECTION 15: Regulatory information

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

##### National regulations

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 Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

Control of Substances Hazardous to Health Regulations 2002 (as amended).



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**EU legislation** 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**

<b>Issued by</b>	OHS&E
<b>Revision date</b>	30/05/2022
<b>Revision</b>	4
<b>Supersedes date</b>	23/06/2020
<b>Hazard statements in full</b>	H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H350 May cause cancer. H351 Suspected of causing cancer. H412 Harmful to aquatic life with long lasting effects.
<b>Store Between</b>	Store Between 5°C-25°C
<b>Contains isocyanate</b>	NO
<b>Version History</b>	V1 June 2015 New release for Classification, Labelling Packaging Regulations V2 April 2017 Revised to remove references to CHIP and R Phrases V3 June 2020 Amended Logo, added UFI code V4 May 2022 Reviewed

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