



# Safety Data Sheet According to EC Regulation 1907/2006 (REACH) & 1272/2008 (CLP) & 453/2010 Version number 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	ArmourPlan Lap Cleaner	
Product number	05504405	
Synonyms; trade names	05501485	
REACH registration number	01-2119475514-35	
EC number	921-024-6	
1.2. Relevant identified uses of	of the substance or mixture and uses advised against	
Identified uses	Etchant/cleaner.	
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	
Manufacturer	uktechnical@iko.com APOLLO CHEMICALS LTD SANDY WAY AMINGTON INDUSTRIAL ESTATE TAMWORTH STAFFS B77 4DS T: +44 (0) 1827 54281 F: +44 (0) 1827 53030 E: sds@apolloadhesives.com	
1.4. Emergency telephone nu	mber	
Emergency telephone	+44 01827 69662 (NOT 24HRS)	
SECTION 2: Hazards identification		
2.1. Classification of the subst	tance or mixture	
Physical hazards	Flam. Liq. 2 - H225	
Health hazards	Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 STOT SE 3 - H336	
Environmental hazards	Aquatic Chronic 2 - H411	

Human health	Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
Environmental	The product contains a substance which is harmful to aquatic organisms.
Physicochemical	The product is highly flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers.
2.2. Label elements	
EC number	921-024-6
Pictogram	
Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour.
	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation.
	H336 May cause drowsiness or dizziness.
	H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
	P501 Dispose of contents/container in accordance with national regulations.
	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
Contains	hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane, HEXANE-norm

Supplementary precautionary statements	<ul> <li>P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures against static discharge.</li> <li>P261 Avoid breathing vapour/spray.</li> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P273 Avoid release to the environment.</li> <li>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P312 Call a POISON CENTER/doctor if you feel unwell.</li> <li>P321 Specific treatment (see medical advice on this label).</li> </ul>
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## 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

3.2. Mixtures hydrocarbons, C6-C7,n-alkan hexane	es, isoalkanes, cyclics, <5% n-	60-100%
CAS number: —	EC number: 921-024-6	REACH registration number: 01- 2119475514-35
Classification		
Flam. Liq. 2 - H225		
Skin Irrit. 2 - H315		
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
STOT SE 3 - H336		
Aquatic Chronic 2 - H411		

CAS number: 110-54-3	EC number: 203-777-6	REACH registration number: 01- 2119480412-44	
Classification			
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			

SECTION 4: First aid measures		
4.1. Description of first aid me	asures	
General information	Remove affected person from source of contamination.	
Inhalation	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.	
Ingestion	DO NOT induce vomiting. Get medical attention immediately.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water.	
Eye contact	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 if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.	
4.2. Most important symptoms and effects, both acute and delayed		
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	Vapours may cause headache, fatigue, dizziness and nausea. Sore throat.	
Ingestion	May cause chemical burns in mouth and throat.	
Skin contact	Prolonged contact may cause redness, irritation and dry skin.	
Eye contact	Prolonged contact may cause redness and/or tearing.	
4.3. Indication of any immedia	te 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	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	om the substance or mixture	
Specific hazards	The product is flammable. Heating may generate flammable vapours. No unusual fire or	

**Specific hazards** The product is flammable. Heating may generate flammable vapours. No unusual fire or explosion hazards noted.

Hazardous combustion products	Does not decompose when used and stored as recommended.	
5.3. Advice for firefighters		
Protective actions during firefighting	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	e measures	
6.1. Personal precautions, pro	tective equipment and emergency procedures	
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.	
6.2. Environmental precaution	S	
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	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. 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 section	ns	
Reference to other sections	For personal protection, see Section 8. For waste disposal, see section 13.	
SECTION 7: Handling and sto	rage	
7.1. Precautions for safe hand	ling	
Usage precautions	Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Avoid eating, drinking and smoking when using the product. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.	
7.2. Conditions for safe storag	e, including any incompatibilities	
Storage precautions	Keep away from heat, sparks and open flame. Keep only in the original container. Store in closed original container at temperatures between 5°C and 25°C.	
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 Contro	Is/personal protection	
	bur TWA): WEL 20 ppm 72 mg/m³	
Short-term exposure limit (15-	minute): WEL	

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

## DNEL

Consumer - Oral; Long term systemic effects: 6 mg/kg bw/day Consumer - Dermal; Long term systemic effects: 7 mg/kg bw/day Workers - Dermal; Long term systemic effects: 13 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 20 mg/m<sup>3</sup> Workers - Inhalation; Long term systemic effects: 93 mg/m<sup>3</sup>

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

Ingredient comments

WEL = Workplace Exposure Limits

## 8.2. Exposure controls

#### Protective equipment







Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours.
Eye/face protection	The following protection should be worn: Chemical splash goggles.
Hand protection	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. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). Wear protective gloves.
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 and safety shower. Wash contaminated clothing before reuse. Wash hands after handling. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Do not smoke in work area.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/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. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

## **SECTION 9: Physical and Chemical Properties**

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

Appearance	Clear liquid.
Colour	Colourless.
Odour	aromatic hydrocarbons
Odour threshold	Not available.
рН	Not available.
Melting point	Not determined.
Initial boiling point and range	60-95°C @ 1013 hPa

Flash point	-26°C CC (Closed cup).
Evaporation rate	2 (diethyl ether = 1)
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.9 Upper flammable/explosive limit: 8
Other flammability	Not available.
Vapour pressure	<160 mbar @ °C
Vapour density	>1 g/cm³
Relative density	0.675-0.690 g/cm3 @ 20°C
Bulk density	Not available.
Solubility(ies)	Immiscible with water.
Partition coefficient	Not available.
Auto-ignition temperature	>230°C
Decomposition Temperature	Not available.
Viscosity	5x10-7 m2/s @ 25°C
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.
Volatile organic compound	This product contains a maximum VOC content of 690 g/litre.
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
10.2. Chemical stability	
Stability	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	Not known.
10.5. Incompatible materials	
Materials to avoid	Strong acids. Strong oxides.
10.6. Hazardous decompositio	on products
Hazardous decomposition products	Does not decompose when used and stored as recommended. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
SECTION 11: Toxicological inf	formation
11.1. Information on toxicologi	cal effects
Toxicological effects	No information available.
Acute toxicity - oral Acute toxicity oral (LD₅₀ mg/kg)	5,840.0
Species	Rat
Notes (oral LD₅₀)	Not known. Data lacking.
ATE oral (mg/kg)	5,840.0
Acute toxicity - dermal Acute toxicity dermal (LD₅₀ mg/kg)	2,920.0
Species	Rat
Notes (dermal LD₅₀)	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 mm²/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.
Route of entry	Inhalation Skin absorption Ingestion. Skin and/or eye contact
Target organs	No specific target organs known.
Medical symptoms	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.
Medical considerations	No information available.

## Toxicological information on ingredients.

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

Toxicological effects	No information available.
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ 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 (LD₅₀ mg/kg)	2,920.0
Species	Rat
Notes (dermal LD₅₀)	Data lacking.
ATE dermal (mg/kg)	2,920.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC∞ 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.
Route of entry	Inhalation Skin absorption Ingestion. Skin and/or eye contact
Target organs	No specific target organs known.
Medical symptoms	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.
Medical considerations	No information available.
SECTION 12: Ecological Information	

Ecotoxicity

Dangerous for the environment.

## Ecological information on ingredients.

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

Ecotoxicity	Dangerous for the environment.
12.1. Toxicity	
Acute toxicity - fish	LC₀, hours: >1-<10 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 3 mg/l, Daphnia magna
Acute toxicity - aquatic plants	LC₀, hours: >1-<10 mg/l, Algae

Ecological information on ingredients.

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

Acute toxicity - fish	LC₀, hours: >1-<10 mg/l, Fish	
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 3 mg/l, Daphnia magna	
Acute toxicity - aquatic plants	LC₀, hours: >1-<10 mg/l, Algae	
	HEXANE-norm	

Acute toxicity - fish	LC50, EC50, IC50, : 10 mg/l, Fish
Acute toxicity - aquatic invertebrates	LC₅o, EC₅o, IC₅o, ∶10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	LC₅o, EC₅o, IC₅o, ∶10 mg/l, Algae

## 12.2. Persistence and degradability

12.3. Bioaccumulative potential		
Partition coefficient	Not available.	
12.4. Mobility in soil		
12.5. Results of PBT and vPvB	assessment	
12.6. Other adverse effects		
SECTION 13: Disposal conside	erations	
13.1. Waste treatment methods	<u>§</u>	
SECTION 14: Transport inform	ation	
14.1. UN number		
UN No. (ADR/RID)	3295	
UN No. (IMDG)	3295	
UN No. (ICAO)	3295	
UN No. (ADN)	3295	
14.2. UN proper shipping name		
Proper shipping name (ADR/RID)	HYDROCARBONS, LIQUID, N.O.S.	
Proper shipping name (IMDG)	HYDROCARBONS, LIQUID, N.O.S.	
Proper shipping name (ICAO)	HYDROCARBONS, LIQUID, N.O.S.	
Proper shipping name (ADN)	HYDROCARBONS, LIQUID, N.O.S.	
14.3. Transport hazard class(e	s)	
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 groupADR/RID packing groupIIIMDG packing groupIIADN packing groupIIICAO packing groupII14.5. 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

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

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Issued by	Compliance
Revision date	01/06/2015
Revision	20
Hazard statements in full	<ul> <li>H225 Highly flammable liquid and vapour.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H315 Causes skin irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H361f Suspected of damaging fertility.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>
Store Between	Store Between 5'c - 25'c
Contains SVHC	NO
Version History	V1 - July 20156 - New Version for CLP Regulations V2 - March 2017 - Revised UN number designation V3 - April 2017 - Removed references to CHiP and R Phrases

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.