

## SAFETY DATA SHEET

REGISTER: **UK 3884**

STATUS: **2.05.2008**

## ARMAFLEX Adhesive HT 625

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### 1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY/UNDERTAKING

PRODUCT NAME	Armaflex HT 625 Adhesive
USE **	For use with Armaflex thermal insulation – specifically HT/Armaflex
MANUFACTURER /DISTRIBUTOR**	Armacell UK Limited Mars Street, Oldham, Lancashire. OL9 6LY Tel: 0161 287 7100 Fax: 0161 633 2685 www.armacell.com
EMERGENCY INFORMATION	Institute for Toxicology Tel: +49 (0)30 - 19240 www.giftnotruf.de E-Mail: mail@bbges.de

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

DESCRIPTION	Polychloroprene-based contact adhesive, free from aromatic solvents.
HAZARDOUS INGREDIENTS	<b>Cyclohexane</b> (CAS 110-82-7) Percentage: 25 - 50 % Classification: F, R 11; N, R 50/53; Xn, R65; Xi R38; R67  <b>Ethylacetate</b> (CAS 141-78-6) Percentage: 25 - 50 % Classification: F, R 11, Xi, R36, R67, R66  <b>Acetone</b> (CAS 67-64-1) Percentage: 5 - 25 % Classification: F, R 11; Xi, R 36; R67; R66  <b>Hexane, Mixture of Isomers containing max. 5 % n-Hexane</b> (CAS 110-54-3) Percentage: 1 - 5 % Classification: F, R 11; N, R 51/53; Xn, R65; Xi R38; R67  <b>Heptane</b> (CAS 142-82-5) Percentage: 1 - 5 % Classification: F, R 11; N, R 50/53; Xn, R65; Xi ;R38; R67

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**Hexane, Mixture of Isomers containing more than 5 % N-Hexane**  
(CAS 110-54-3)

Percentage: < 1 %

Classification: F,R 11; Repr.Cat. 3; R62 N; R51/53 Xn; R48/20 Xn; R65 Xi;  
R38,R67

### 3. HAZARDS IDENTIFICATION

<b>HAZARDS</b>	Highly flammable. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Irritating to eyes and skin. Repeated exposure may cause skin dryness or cracking Vapours may cause drowsiness and dizziness.
<b>ADDITIONAL INFORMATION</b>	The formation of an explosive vapour-air mixture is possible during application or in the event of spillage. Ensure adequate ventilation.

### 4. FIRST-AID MEASURES

<b>INHALATION **</b>	Move the exposed person to fresh air immediately. If not breathing or breathing is difficult provide artificial respiration or oxygen by trained personnel and seek urgent medical attention.
<b>SKIN CONTACT **</b>	Remove affected person from the source of contamination and remove all contaminated clothing. Wash the skin immediately with soap and water. Seek medical attention if irritation persists.
<b>EYE CONTACT **</b>	Immediately remove any contact lenses from the eyes. Promptly wash the eyes with plenty of water while lifting the eyelids and continue to rinse for 15 minutes. Seek medical attention if irritation persists.
<b>INGESTION **</b>	<b>DO NOT INDUCE VOMITING.</b> Immediately remove affected person from source of exposure. If conscious rinse mouth thoroughly with water and give water to drink. Seek urgent medical attention

### 5. FIRE-FIGHTING MEASURES

<b>SUITABLE EXTINGUISHING MEDIA</b>	Carbon dioxide, dry powder, foam, or fine water spray.
<b>AVOID USING</b>	Full water jet due to risk of spreading the fire.
<b>SPECIAL FIRE FIGHTING PROCEDURES **</b>	May form explosive vapour-air mix. Keep up wind to avoid fumes. Cool containers exposed to heat from the fire with copious amounts of water until well after the fire is extinguished. Keep run-off water out of sewers and water ways.

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### 6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS \*\*** Extinguish any ignition sources and provide adequate ventilation. Do not smoke. Clean up personnel should wear suitable overalls, gloves and respirator.
- ENVIRONMENTAL PRECAUTIONS** Prevent spillage from entering sewers and water ways. If the spillage enters sewers or water ways, inform the appropriate authorities in accordance with local regulations.
- SPILL CLEAN UP METHODS** Absorb spillage in vermiculite, dry sand or earth and place in to suitable containers.

### 7. HANDLING AND STORAGE

- HANDLING PRECAUTIONS \*\*** Avoid spillages, skin and eye contact. No smoking, keep away from sources of ignition, sparks and static discharges. Ensure adequate ventilation and avoid breathing vapours, use a suitably approved respirator if air contamination is above an acceptable level or above W.E.L. Where reasonably practicable use LEV (local exhaust ventilation). Keep separate from food and always wash hands after use.
- STORAGE PRECAUTIONS \*\*** Flammable / combustible. Store in tightly closed original container in a cool dry place. Keep away from heat, sources of ignition and oxidisers.
- STORAGE CLASS \*\*** Flammable liquid storage. (VCI Class 3A)

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### WORK PLACE EXPOSURE LIMITS WEL's \*\*

SUBSTANCE	CAS No.	Long-term exposure limit (8hr TWA reference period)		Short-term exposure limit (15 minute reference period)		Comments
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Cyclohexane	110-82-7	100	350	300	1050	R11, 38, 65, 67, 50/53
Ethyl acetate	141-78-6	200	-	400	-	R11, 36, 66, 67
Acetone	67-64-1	500	1210	1500	3620	R11, 36, 66, 67
Heptane	142-82-5	500	-	-	-	R11, 38, 65, 67, 50/53
n-Hexane	110-54-3	20	72	-	-	R11, 38, 48/20, 62, 65, 67, 51/53

- ENGINEERING MEASURES \*\*** Where possible use LEV (local exhaust ventilation) or other ventilation measures to maintain atmospheric concentrations to as low a level as is reasonably practicable below the W.E.L.

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**RESPIRATORY EQUIPMENT \*\*** Respiratory protection equipment must be used if atmospheric concentrations exceed acceptable levels and during spraying applications. For short term exposure use type AXP3 gas/vapour filter respirator conforming to EN141.

**HAND PROTECTION** Disposable nitrile gloves.

**EYE PROTECTION** Wear tightly fitting safety goggles to protect eyes from splashes.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	Viscous liquid
<b>COLOUR</b>	Translucent - amber
<b>ODOUR</b>	Solvent
<b>MELTING POINT</b>	N/a
<b>BOILING POINT</b>	60 °C (approx).
<b>FLASH POINT</b>	- 18 °C c, c
<b>LOWER EXPLOSION LIMIT</b>	approx. 1 % b.v.
<b>UPPER EXPLOSION LIMIT</b>	approx. 13 % b.v.
<b>DENSITY AT 20 °C</b>	approx. 0.9 g/cm <sup>3</sup>
<b>WATER SOLUBILITY (20 °C)</b>	slightly soluble

### 10. STABILITY AND REACTIVITY

<b>STABILITY **</b>	Stable under normal temperature conditions
<b>CONDITIONS TO AVOID **</b>	Avoid heat, sources of ignition and oxidisers.
<b>HAZARDOUS REACTIONS</b>	None known
<b>HAZARDOUS DECOMPOSITION PRODUCTS **</b>	No thermal decomposition products when handled and stored correctly. Fire will create toxic gases including Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ) and Hydrogen chloride (HCL)

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### 11. TOXICOLOGICAL INFORMATION

<b>GENERAL INFORMATION **</b>	Irritating to the skin, mucous membranes and eyes.
<b>HEALTH WARNINGS **</b>	<b>INHALATION:</b> May cause irritation to the respiratory system. Vapours may cause nausea, sickness and headaches. <b>SKIN CONTACT:</b> Product has a de-moisturising effect on the skin. <b>EYE CONTACT:</b> Irritating to the eyes.
<b>ROUTES OF ENTRY **</b>	Inhalation. Skin absorption.

### 12. ECOLOGICAL INFORMATION

<b>ECOLOGICAL TOXICITY</b>	Toxic to the environment if discharged into watercourses.
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### 13. DISPOSAL CONSIDERATIONS

<b>GENERAL INFORMATION **</b>	The product ( including empty containers containing any residual unevaporated solvent) is classed as hazardous waste.
<b>DISPOSAL METHODS **</b>	In the UK refer to the Hazardous Waste regulations 2005.
<b>HAZARD CLASSIFICATION **</b>	H3A - highly flammable liquid. EWC code: 08 04 09,

### 14. TRANSPORT INFORMATION

#### LAND TRANSPORT (ADR/CDG)

<b>PROPER SHIPPING NAME</b>	Adhesive containing flammable liquid.
<b>UN-No.</b>	1133
<b>CLASS **</b>	Class 3: Flammable liquids
<b>PACKING GROUP</b>	II
<b>HAZARD LABEL</b>	3
<b>HAZARD IDENTIFICATION No.</b>	33

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### MARINE TRANSPORT (IMDG)

**UN-No.** 1133  
**PROPER SHIPPING NAME** Adhesive containing flammable liquid.  
**CLASS \*\*** Class 3: Flammable liquids  
**PACKING GROUP** II  
**HAZARD LABEL** 3  
**EMS No.** Fire schedule F-E, Spillage schedule S-D  
**STOWING AND SEGREGATION** Category B

### AIR TRANSPORT (ICAO-TI / IATA-DGR)

**UN OR ID-No.** 1133  
**PROPER SHIPPING NAME** Adhesive containing flammable liquid  
**CLASS \*\*** Class 3: Flammable liquids  
**PACKING GROUP** II  
**HAZARD LABEL** 3

## 15. REGULATORY INFORMATION

### LABELLING



**F** Highly flammable



**Xi** Irritant



**N** Dangerous for the environment

### R-PHASES

**R11** Highly flammable  
**R51/53** Toxic to aquatic organisms, may cause longterm adverse effects on the aquatic environment  
**R36/38** Irritating to eyes and skin  
**R67** Vapours may cause drowsiness and dizziness

### S-PHASES

**S61** Avoid release to the environment. Refer to special instructions/safety data sheets  
**S51** Use only in well ventilated areas  
**S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
**S16** Keep away from sources of ignition - no smoking  
**S29** Do not empty to drains  
**S33** Take precautionary measures against static discharges

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\*\* UK regulatory reference: The Chemicals (Hazard Information & Packaging for Supply) Regulations 2002

### 16. OTHER INFORMATION

#### REVISION HISTORY \*\*

EFFECTIVE DATE THIS ISSUE	23.11.2007
SUPERSEDES ISSUE DATED	23.03.2007
REASON FOR CHANGE	REVISED FOR UK DISTRIBUTION
	Sections marked ** have been significantly altered

<b>RISK PHRASES IN FULL</b>	R11	Highly flammable
	R36	Irritating to eyes
	R38	Irritating to skin
	R48/20	Harmful: danger of serious damage to health by prolonged exposures through inhalation.
	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects on the aquatic environment
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects on the aquatic environment
	R62	Possible risk of impaired fertility
	R65	Harmful: may cause lung damage if swallowed
	R66	Repeated exposure may cause skin dryness or cracking
	R67	Vapours may cause drowsiness and dizziness