

Tunnelling Accessories Ltd

TECHNICAL DATA SHEET TA26 CONTACT ADHESIVE

Base:	Polychloroprene
Solids:	23-27%
Viscosity:	5000-7000 cP at 20C
Colour:	Clear
Tack Life:	5-30+ mins
Coverage:	4.5 sq metres/litre (+ or – 1 litre)
Cleaner:	Solvent 1
Flash Point:	-30 C (aliphatic hydrocarbon)
Shelf Life:	12 months at 4C –25C

Description: TA26 is a clear, brushable, general purpose contact adhesive. It exhibits excellent adhesion to most surfaces and has good heat resistance. Bonds may be made over a wide range of open times because of its fast flash off and long open time.

Application: Stir adhesive before use, and make sure the surfaces to be bonded are clean, dry and free from dust and grease. Apply a thin even coat of adhesive to both surfaces using a short, stiff brush. When surfaces become 'touch dry' (i.e. adhesive is glossy and no longer transfers to the knuckles) align the bond edges and bond under maximum pressure. The newly bonded material should not be subjected to extreme temperature changes for 3 to 4 days after bonding.

HEALTH AND SAFETY

Before using this product ensure that you have been supplied with and have read carefully the following information:

1. The hazard label (complying with CPL Regulations 1995) applied to the container.
2. Health and Safety Data Sheet for TA26.



Apollo Chemicals Limited,
 Sandy Way, Amington Industrial Estate, Tamworth, Staffs. B77 4DS.
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BASE Polychloroprene	TECHNICAL DATA SHEET GENERAL PURPOSE CONTACT ADHESIVE	PRODUCT A0026
SOLIDS 23 – 27%	<p>DESCRIPTION</p> <p>Apollo A.26 is a cream coloured, brushable, general purpose contact adhesive. It exhibits excellent adhesion to most surfaces and has good heat resistance. Bonds may be made over a wide range of open times because of its fast flash off and long open time.</p> <p>'Non-soak-in' properties make it particularly suitable for edge bonding.</p> <p>A.26 is used extensively for automotive trim application, bonding decorative laminates to wood and wood composites in the kitchen furniture industry, and generally for bonding plastics (not expanded polystyrene or plasticised PVC), metals, leather, rubbers and urethane foams.</p> <p>APPLICATION</p> <p>Stir adhesive before use and make sure that surfaces to be bonded are clean, dry and free from dust and grease. Condition materials to be bonded (particularly wood composites and decorative laminates) in the bonding environment overnight.</p> <p>Apply a thin even coat of adhesive to both surfaces using a short, stiff brush. When surfaces become 'touch dry' (i.e. adhesive is glossy and no longer transfers to the knuckles) align the bond edges and bond under maximum pressure. For the best results, laminates should be nip rolled or platen pressed. If this is not possible use a hard roller and go over the entire working surface using as much bodyweight as possible. Seams and edges should always receive extra pressure. If possible sandwich the panel edge between wooden battens and use G-clamps.</p> <p>The newly bonded material should not be subjected to extreme temperature changes for 3 to 4 days after bonding and avoid further fabrication until the adhesive has fully cured.</p> <p style="text-align: right;">CONTINUED OVER PAGE</p>	
VISCOSITY 5000 – 7000 cP @ 20°C		
COLOUR Cream		
TACK LIFE 5 – 30+ mins		
COVERAGE 4.5 ± 1m ² / ltr		
CLEANER Solvent 1		
FLASH POINT See MSDS		
SHELF LIFE 12 months stored @ 5 – 25°C		



CONTINUATION

SPECIAL COMMENTS

1. Modifications having higher heat resistance are available, e.g. A.23 and A.27.
2. A.26 is available in non-flammable solvents as A.8489.
3. Sprayable versions are available which allow greater production throughput, i.e. A.11, A.3089 and A.8517.
4. Apollo A.26 has been approved to Ford specification SM-2G-9102B for rubber weatherstrip bonding.
5. Store above 4°C.
6. A.2368 is a low viscosity version and is available in Neutral or Black.

Ref : A0026	Date : 27/09/06
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The above figures do not constitute a specification. They represent typical values obtained for this product.

HEALTH AND SAFETY

Before using this product please ensure that you have been supplied with and have read carefully the following information:

1. The hazard labels (complying with CHIP and CDG/CPL Regs).
2. Apollo Material Safety Data Sheet A0026

IMPORTANT NOTICE

This leaflet is for general guidance only and may contain inappropriate information under particular conditions of use. All recommendations and suggestions are therefore made without guarantee. Samples will be provided on request to enable customers to satisfy themselves as to the suitability of the product for any specific purpose and to assess the product under their own working conditions.

Please note that the BSI/UKAS logo for BS EN ISO 9001:2000 Certification on this document refers to the Quality Management System used throughout the production of products.

SAFETY DATA SHEET

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Compilation date: 27/11/2009

Sent to: TUNNELLING ACCESSORIES LTD

Revision No: 3

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

1.1. Product identifier

Product name: A0026

REACH registered number(s): 01-2119471310-51,01-2119484651-34,01-2119471330-49

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: Apollo Chemicals Ltd
Sandy Way
Amington Industrial Estate
Tamworth
STAFFS
B77 4DS
UK

Tel: 01827 54281

Fax: 01827 53030

Email: sds@apolloadhesives.com

1.4. Emergency telephone number

Emergency tel: 01827 69662

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: F: R11; Xi: R36/38; Xn: R48/20; -: R52/53; Xn: R63; -: R66; -: R67

Classification under CLP: Eye Irrit. 2: H319; Flam. Liq. 2: H225; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336

Most important adverse effects: Highly flammable. Irritating to eyes and skin. 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. Possible risk of harm to the unborn child. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

2.2. Label elements

Label elements under CLP:

Hazard statements: H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

[cont...]

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H336: May cause drowsiness or dizziness.

H361d: Suspected of damaging the unborn child.

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

Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark

GHS08: Health hazard



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

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing.

Rinse skin with water/shower.

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

P501: Dispose of contents/container to specialised waste company.

Label elements under CHIP:

Hazard symbols: Highly flammable.

Harmful.



Risk phrases: R11: Highly flammable.

R36/38: Irritating to eyes and skin.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R63: Possible risk of harm to the unborn child.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

Safety phrases: S9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S23: Do not breathe vapour.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S24/25: Avoid contact with skin and eyes.

S36/37: Wear suitable protective clothing and gloves.

S29/35: Do not empty into drains; dispose of this material and its container in a safe way.

Precautionary phrases: Restricted to professional users.

[cont...]

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2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

TOLUENE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
203-625-9	108-88-3	F: R11; Xi: R38; Xn: R48/20; Xn: R63; Xn: R65; -: R67	Flam. Liq. 2: H225; Repr. 2: H361d; Asp. Tox. 1: H304; STOT RE 2: H373; Skin Irrit. 2: H315; STOT SE 3: H336	30-50%

ACETONE

200-662-2	67-64-1	F: R11; Xi: R36; -: R66; -: R67	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	10-30%
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LOW BOILING POINT NAPHTHA - UNSPECIFIED - NAPHTHA (PETROLEUM), HYDRODESULPHURIZED LIGHT, DEAROMATIZE

295-434-2	92045-53-9	Xn: R65; F+: R12; Xi: R38; N: R51/53	Asp. Tox. 1: H304; Flam. Liq. 1: H224; Skin Irrit. 2: H315; Aquatic Chronic 2: H411	10-30%
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LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

265-151-9	64742-49-0	Xn: R65; F+: R12; Xi: R38; N: R51/53	Asp. Tox. 1: H304; Flam. Liq. 1: H224; Skin Irrit. 2: H315; Aquatic Chronic 2: H411	10-30%
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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. Consult a doctor.

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

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor if symptoms persist.

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

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

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

[cont...]

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

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: Refer to section 8 of SDS for personal protection details. 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. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

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. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

[cont...]

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Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

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	191 mg/m ³	574 mg/m ³	-	-

Hazardous ingredients:

TOLUENE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	191 mg/m ³	384 mg/m ³	-	-

ACETONE

UK	1210 mg/m ³	3620 mg/m ³	-	-
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8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

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: Avoid skin contact. For repeated exposure use Viton or 4H chemical gloves. The user must COSHH risk assess to determine the correct glove.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Cream

Odour: Characteristic odour

Evaporation rate: Fast

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Viscosity: Viscous

Boiling point/range°C: 56

upper: 13

Autoflammability°C: 200

Flammability limits %: lower: 0.6

Flash point°C: -35

[cont...]

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Relative density: 0.85

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. 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

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg
VAPOURS	RAT	4H LC50	>5	mg/l

Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT 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.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

[cont...]

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Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
ALGAE	48H EC50	1-10	mg/l
FISH	96H LC50	1-10	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: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

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: UN1133

14.2. UN proper shipping name

Shipping name: ADHESIVES

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

[cont...]

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14.6. Special precautions for user

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.

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 compliant with the Chemical [Hazard Information and Packaging for Supply] Regulations 2002

Phrases used in s.2 and 3: EUH066: Repeated exposure may cause skin dryness or cracking.

H224: Extremely flammable liquid and vapour.

H225: Highly flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H340: May cause genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H350: May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H361d: Suspected of damaging the unborn child.

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>.

H411: Toxic to aquatic life with long lasting effects.

R11: Highly flammable.

R12: Extremely flammable.

R36/38: Irritating to eyes and skin.

R36: Irritating to eyes.

R38: Irritating to skin.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the

[cont...]

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aquatic environment.

R63: Possible risk of harm to the unborn child.

R65: Harmful: may cause lung damage if swallowed.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

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.

**TUNNELLING ACCESSORIES LTD
SIDNEY LITTLE ROAD
CHURCHFIELDS I/E, ST. LEONARDS
ON-SEA, EAST SUSSEX TN38 9PU**