

CAR BUILDER SOLUTIONS

ADHCON– Technical Data Sheet

PRODUCT INFORMATION

#ADHCON has been developed as a multi-purpose contact adhesive where high strength and heat resistant performance is desired. It is an easily applied adhesive with short open time that forms strong and permanent contact bonds. The combination of fast drying, long tack life and excellent hot strength make it an ideal choice for automotive trim bonding.

KEY INFORMATION

- **Multi-purpose contact adhesive**
- **Excellent high temperature performance**
- **Excellent bond strength**
- **Short open time**
- **Easy to use**

TYPICAL APPLICATIONS

#ADHCON is suitable for the following applications:

- Laminate materials (e.g. Formica, Waverite, Melamine) to wood
- Polyurethane foams or mineral wool panels to plasterboard
- Painted or unpainted metals to most surfaces
- General purpose adhesive for wood, rubber, most plastics, fabrics, cork, linoleum and rigid PVC

PRODUCT CHARACTERISTICS

The following technical information and data should be considered representative or typical only. Therefore, the information should not be used for specification purposes.

| |
|--------------------------------------|
| Property Data Colour Yellow |
| Base Polychloroprene rubber |

Consistency
Liquid

Specific Gravity (20°C)
0.880

Total Solids Content
26.0-30.0 %

Viscosity (20°C)
5,500 – 6,500 cP

Heat Resistance
up to 120°C

Open Joint Time
7 to 20 minutes*

Coverage
2 – 3 m² of bonded material / litre*

* dependent upon ambient temperature, relative humidity and the materials used.

PRODUCT PERFORMANCE

The performance data presented here has been determined by Wayside Adhesives Ltd standard test methods and are average values that should not be used for specification purposes. Our recommendations on the use of this product are based on tests believed to be reliable. It is advised that users conduct their own tests to determine the suitability of the product for their specific application.

Test
Substrates
Results/Observations

180° Peel Test
Cloth-backed PVC Leather to Painted Steel
50N/25mm, 7 days testing at Room Temperature

180° Peel Test
Cloth-backed PVC Leather to Painted Steel
50N/25mm, 7 days testing at 100°C

180° Peel Test
Cloth-backed PVC Leather to Painted Steel
20N/25mm, 72 hours testing at 100% R.H.

HANDLING & APPLICATIONS

The general application information presented here is based upon typical conditions determined by Car testing. Our recommendations on the use of this product are based on methods believed to be reliable. It is advised that users conduct their own tests to determine the suitability of the product for their specific application.

Process Step Guidelines

Surface Preparation

All substrates must be clean of any dust, grit, loose material, wax, grease and oil using a suitable cleaner. The materials to be bonded should be dry.

Adhesive Application

TWO-WAY STICK

1. Stir before use. Using a brush or spreader, apply a thin even coating of adhesive to both of the surfaces.
2. Allow the solvent content to evaporate before bonding the materials (touch dry) . The time for this evaporation will depend on the temperature and humidity.
3. Bond the materials under firm pressure.

Curing

The immediate high contact bond strength increases appreciably within the next 48 hours and will develop still further in service. For the best heat resistance, leave at room temperature for 7 days, before subjecting to high in-service temperatures up to 120°C.

HEALTH & SAFETY INFORMATION

#ADHCON is classified as hazardous according to Directive EC 1272/2008. Please refer to the #ADHCON Safety Data Sheet for further health & safety information.

STORAGE

#ADHCON should be stored in its original container, with the lid tightly secured, in dry conditions and at temperatures between 5°C and 25°C. #ADHCON will keep satisfactorily for up to 18 months from date of manufacture if stored according to the recommended conditions.

ISSUE : 1

February2024

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CAR BUILDER
SOLUTIONS

HIGH TEMPERATURE CONTACT ADHESIVE HTA1000

Specialist contact adhesive developed for the automotive industry.
Ideal for high temperature application.

Hazard statements:

H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H361d Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243 Take precautionary measures against static discharge. P261 Avoid breathing gas, fume, vapours or spray. P273 Avoid release to the environment. P314 Get medical advice/attention if you feel unwell. Contains TOLUENE, Hydrocarbons,C6-C7,n-alkanes,isoalkanes,cyclics, <5%n-hexane, ETHYL ACETATE

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UFI: 19V2 80H8 R00P C4J6

DANGER



UN1133

1 Litre

CAR BUILDER SOLUTIONS

SAFETY DATA SHEET #ADHCON

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

1.1. Product identifier

Product name ADHCON

Product number ADHCON

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses High Heat Resistance Contact Adhesive.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier

CBS Online Limited
Redlands
Lindridge Lane
Staplehurst
KENT TN12 0JJ

Email: info@carbuilder.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373

Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) Xn;R48/20. Repr. Cat. 3;R63. Xi;R38. F;R11. R52/53,R67.

Human health The liquid is irritating to eyes and skin. Contains a substance/a group of substances which may damage the unborn child.

Environmental The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Physicochemical The product is highly flammable. Vapours may form explosive mixtures with air.

2.2. Label elements

ADHCON

Pictogram



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
 H315 Causes skin irritation.
 H336 May cause drowsiness or dizziness.
 H361d Suspected of damaging the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H412 Harmful to aquatic life with long lasting effects.
 EUH208 Contains ROSIN. May produce an allergic reaction.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing gas, fume, vapours or spray.
 P273 Avoid release to the environment.
 P314 Get medical advice/ attention if you feel unwell.

Contains

TOLUENE, Hydrocarbons,C6-C7,n-alkanes,isoalkanes,cyclics,<5%n-hexane, ETHYL ACETATE

Supplementary precautionary statements

P201 Obtain special instructions before use.
 P241 Use explosion-proof electrical/ ventilating /lighting/.../ equipment.
 P242 Use only non-sparking tools.
 P260 Do not breathe vapour/ spray.
 P264 Wash ... thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
 P312 Call a POISON CENTER/ doctor if you feel unwell.
 P321 Specific treatment (see medical advice on this label).
 P330 Rinse mouth.
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P370+P378 In case of fire: Use dry powder, dry sand or dry earth to extinguish.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ADHCON

| | | |
|---|---|---|
| TOLUENE 30-60% | | |
| CAS number: 108-88-3 | EC number: 203-625-9 | REACH registration number: 01-2119471310-51 |
| Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304 | Classification (67/548/EEC or 1999/45/EC) F;R11 Repr. Cat. 3;R63 Xn;R48/20,R65 Xi;R38 R67 | |
| Hydrocarbons,C6-C7,n-alkanes,isoalkanes,cyclics,<5%n-hexane 10-30% | | |
| 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 Aquatic Chronic 2 - H411 | Classification (67/548/EEC or 1999/45/EC) Xn;R65. Xi;R38. F;R11. N;R51/53. R67. | |
| ETHYL ACETATE 5-10% | | |
| CAS number: 141-78-6 | EC number: 205-500-4 | REACH registration number: 01-2119475103-46 |
| Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336 | Classification (67/548/EEC or 1999/45/EC) F;R11 Xi;R36 R66 R67 | |
| ROSIN <0.4% | | |
| CAS number: 8050-09-7 | EC number: 232-475-7 | |
| Classification Skin Sens. 1 - H317 | Classification (67/548/EEC or 1999/45/EC) R43 | |

ADHCON

| | | |
|--------------------------|--|---|
| XYLENE | | <1% |
| CAS number: 1330-20-7 | EC number: 215-535-7 | REACH registration number: 01-2119488216-32 |
| Classification | Classification (67/548/EEC or 1999/45/EC) | |
| Flam. Liq. 3 - H226 | R10 Xn;R20/21 Xi;R38 | |
| Acute Tox. 4 - H312 | | |
| Acute Tox. 4 - H332 | | |
| Skin Irrit. 2 - H315 | | |
| Eye Irrit. 2 - H319 | | |
| STOT SE 3 - H335 | | |
| STOT RE 2 - H373 | | |
| Asp. Tox. 1 - H304 | | |
| Aquatic Chronic 3 - H412 | | |
| HEXANE-norm | | <1% |
| CAS number: 110-54-3 | EC number: 203-777-6 | |
| Classification | Classification (67/548/EEC or 1999/45/EC) | |
| Flam. Liq. 2 - H225 | F;R11 Repr. Cat. 3;R62 Xn;R48/20,R65 Xi;R38 R67 | |
| Skin Irrit. 2 - H315 | N;R51/53 | |
| Repr. 2 - H361f | | |
| STOT SE 3 - H336 | | |
| STOT RE 2 - H373 | | |
| Asp. Tox. 1 - H304 | | |
| Aquatic Chronic 2 - H411 | | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments Polychloroprene based adhesive in petroleum solvent

Chemical Nature

chemical nature

SECTION 4: First aid measures**4.1. Description of first aid measures**

| | |
|-----------------------------------|---|
| General information | Move affected person to fresh air at once. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. |
| Inhalation | Remove affected person from source of contamination. Move affected person to fresh air at once. If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. |
| Ingestion | Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if a large quantity has been ingested. Show this Safety Data Sheet to the medical personnel. |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. |
| Eye contact | Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention. |
| Protection of first aiders | First aid personnel should wear appropriate protective equipment during any rescue. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. |

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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. |
| Ingestion | May cause stomach pain or vomiting. |
| Skin contact | Prolonged contact may cause redness, irritation and dry skin. |
| Eye contact | Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain. |

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. |
| Specific treatments | Treat symptomatically. |

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 the substance or mixture

Specific hazards Heating may generate flammable vapours. The product is highly flammable. Vapours may form explosive mixtures with air. Vapours may accumulate on the floor and in low-lying areas.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen chloride (HCl).

5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Ventilate closed spaces before entering them. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for firefighters Wear chemical protective suit. Use air-supplied respirator, gloves and protective goggles.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure suitable respiratory protection is worn during removal of spillages in confined areas. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

For non-emergency personnel Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

For emergency responders Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

ADHCON

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with sand or other inert absorbent.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. 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. Avoid inhalation of vapours/spray and contact with skin and eyes.

Advice on general occupational hygiene Wash promptly with soap and water if skin becomes contaminated. Use appropriate hand lotion to prevent defatting and cracking of skin.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store at temperatures between 5°C and 25°C.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Specific end use(s)

Adhesive.

Usage description

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

TOLUENE

Long-term exposure limit (8-hour TWA): 50 191

Short-term exposure limit (15-minute): 100 384

ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

ROSIN

Long-term exposure limit (8-hour TWA): WEL 0.05 mg/m³

Short-term exposure limit (15-minute): WEL 0.15 mg/m³

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³

Sk

HEXANE-norm

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m³

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

ETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m³

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m³

Sk

ADHCON

FORMALDEHYDE ...%

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m³

Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m³

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

TOLUENE (CAS: 108-88- 3)

DNEL

Consumer - Oral; Long term systemic effects: 8.13 mg/m³
 Industry - Dermal; Long term systemic effects: 384 mg/kg/day
 Consumer - Inhalation; Short term local effects: 226 mg/m³
 Consumer - Inhalation; Short term systemic effects: 226 mg/m³
 Industry - Inhalation; Short term systemic effects: 384 mg/m³
 Industry - Inhalation; Short term local effects: 384 mg/m³
 Industry - Inhalation; Long term local effects: 192 mg/m³
 Consumer - Inhalation; Long term systemic effects: 56.5 mg/m³
 Industry - Inhalation; Long term systemic effects: 192 mg/m³

PNEC

- Fresh water; 0.68 mg/l
- Sediment (Freshwater); 16.39 mg/kg
- STP; 13.61 mg/l
- Soil; 2.89 mg/kg

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

DNEL

Consumer - Oral; Long term systemic effects: 699 mg/kg/day
 Industry - Oral; Long term systemic effects: 2035 mg/kg/day
 Consumer - Dermal; Long term systemic effects: 699 mg/kg/day
 - Dermal; Long term systemic effects: 773 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 608 mg/m³

ETHYL ACETATE (CAS: 141-78- 6)

DNEL

Industry - Inhalation; Short term systemic effects: 1468 mg/m³
 Industry - Inhalation; Short term local effects: 1468 mg/m³
 Consumer - Inhalation; Short term systemic effects: 734 mg/m³
 Consumer - Inhalation; Short term local effects: 734 mg/m³
 Industry - Inhalation; Long term local effects: 734 mg/m³
 Industry - Dermal; Long term systemic effects: 63 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 734 mg/m³
 Consumer - Dermal; Long term systemic effects: 37 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 367 mg/m³

PNEC

- Fresh water; 0.26 mg/l
- Intermittent release; 1.65 mg/l
- Sediment (Freshwater); 1.25 mg/kg
- Sediment (Marinewater); 0.125 mg/kg
- Soil; 0.24 mg/kg
- STP; 650 mg/l

XYLENE (CAS: 1330-20- 7)

Ingredient comments WEL = Workplace Exposure Limits

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| | |
|-------------|---|
| DNEL | <p>Consumer - Dermal; Long term systemic effects: 108 mg/kg/day</p> <p>Industry - Dermal; Long term systemic effects: 180 mg/kg/day</p> <p>Consumer - Inhalation; Short term local effects: 174 mg/m³</p> <p>Consumer - Inhalation; Short term systemic effects: 174 mg/m³</p> <p>Industry - Inhalation; Short term systemic effects: 289 mg/m³</p> <p>Industry - Inhalation; Short term local effects: 289 mg/m³</p> <p>Consumer - Inhalation; Long term systemic effects: 14.8 mg/m³</p> <p>Industry - Inhalation; Long term systemic effects: 77 mg/m³</p> |
| PNEC | <p>- Fresh water; 0.327 mg/l</p> <p>- Soil; 2.31 mg/kg</p> |

ETHYLBENZENE (CAS: 100-41-4)

| | |
|-------------|---|
| DNEL | Workers - Inhalation; Short term local effects: 293 mg/m ³ |
| PNEC | <p>- Marine water; 0.01 mg/l</p> <p>- Intermittent release; 0.1 mg/l</p> <p>- Sediment (Marinewater); 1.37 mg/l</p> |

PARATERTIARYBUTYLPHENOL (CAS: 98-54-4)

| | |
|-------------|--|
| PNEC | <p>- Soil; 0.324 mg/kg</p> <p>- Fresh water; 0.01 mg/l</p> <p>- Sediment (Freshwater); 0.975 mg/l</p> <p>- Sediment (Marinewater); 0.0975 mg/l</p> |
|-------------|--|

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. Maintain efficient ventilation/extraction using flameproof equipment where necessary.

Eye/face protection

Wear chemical splash goggles. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Wear protective gloves made of the following material: Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 6 hours. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. When used with mixtures, the protection time of gloves cannot be accurately estimated.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

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| | |
|--|---|
| 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. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. |
| Thermal hazards | Contact with hot product can cause serious thermal burns. |
| Environmental exposure controls | Keep container tightly sealed when not in use. |

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Appearance | Liquid. |
| Colour | Amber. |
| Odour | Organic solvents. |
| Odour threshold | Not determined. |
| pH | Not available. |
| Melting point | Not applicable. |
| Flash point | -8°C CC (Closed cup). |
| Evaporation rate | Not available. |
| Evaporation factor | Not determined. |
| Upper/lower flammability or explosive limits | Upper flammable/explosive limit: 11.5 Lower flammable/explosive limit: 0.9 |
| Vapour pressure | Not available. |
| Vapour density | Not available. |
| Relative density | 0.880 @ @ 20°C |
| Bulk density | Not applicable. |
| Solubility(ies) | Not determined. Insoluble in water. Soluble in the following materials: Organic solvents. |
| Partition coefficient | Not determined. |
| Auto-ignition temperature | Not determined. |
| Decomposition Temperature | Not determined. |
| Viscosity | 5,500- - 6,500 cP @ 20°C |
| Explosive properties | Not determined. |
| Oxidising properties | Not determined. |
| Comments | Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures. |
| <u>9.2. Other information</u> | |
| Refractive index | Not applicable. |
| Particle size | Not available. |
| Molecular weight | Not applicable. |

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| | |
|----------------------------------|---|
| Saturation concentration | Not available. |
| Critical temperature | Not determined. |
| Volatile organic compound | This product contains a maximum VOC content of 632 g/l. |

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. |
|------------------|---|

Possibility of hazardous

10.3. reactions

| | |
|---|-----------------|
| Possibility of hazardous reactions | Not applicable. |
|---|-----------------|

Conditions to

10.4. avoid

| | |
|----------------------------|---|
| Conditions to avoid | Avoid heat, flames and other sources of ignition. |
|----------------------------|---|

Incompatible

10.5. materials

| | |
|---------------------------|--|
| Materials to avoid | No specific material or group of materials is likely to react with the product to produce a hazardous situation. |
|---------------------------|--|

Hazardous decomposition

10.6. products

Hazardous

| | |
|-------------------------------|---|
| decomposition products | Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrogen chloride (HCl). |
|-------------------------------|---|

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

| | |
|-------------------------------------|-----------------|
| Notes (oral LD₅₀) | Not determined. |
|-------------------------------------|-----------------|

Acute toxicity - dermal

| | |
|---------------------------------------|-----------------|
| Notes (dermal LD₅₀) | Not determined. |
|---------------------------------------|-----------------|

Acute toxicity - inhalation

| | |
|---|-----------------|
| Notes (inhalation LC₅₀) | Not determined. |
|---|-----------------|

Skin corrosion/irritation

| | |
|------------------------------|-----------------|
| Human skin model test | Not determined. |
|------------------------------|-----------------|

Extreme pH

| | |
|--------------------|-----------------|
| Serious eye | Not determined. |
|--------------------|-----------------|

damage/irritation

| | |
|--------------------------------------|-----------------|
| Serious eye damage/irritation | Not determined. |
|--------------------------------------|-----------------|

General information

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation

Vapours may cause drowsiness and dizziness.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Product has a defatting effect on skin. May cause allergic contact eczema. Irritating to skin.

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| | |
|---|---|
| Eye contact | May cause temporary eye irritation. |
| Acute and chronic health hazards | Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Nausea, vomiting. Contains a substance/a group of substances which may damage the unborn child. May cause damage to organs through prolonged or repeated exposure. |
| Route of entry | Inhalation Skin absorption |

TOLUENE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 4,328.0

Species Rat

ATE oral (mg/kg) 4,328.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 6,000.0

Species Rabbit

ATE dermal (mg/kg) 6,000.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 21.0

Species Rat

ATE inhalation (vapours mg/l) 21.0

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

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rabbit

ETHYL ACETATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 4,100.0

Species Mouse

ADHCON

| | |
|---|--|
| ATE oral (mg/kg) | 4,100.0 |
| Acute toxicity - dermal | |
| Acute toxicity dermal (LD₅₀ mg/kg) | 2,005.0 |
| Species | Rabbit |
| ATE dermal (mg/kg) | 2,005.0 |
| Acute toxicity - inhalation | |
| Acute toxicity inhalation (LC₅₀ vapours mg/l) | 30.0 |
| Species | Rat |
| ATE inhalation (vapours mg/l) | 30.0 |
| Skin sensitisation | |
| Skin sensitisation | Guinea pig maximization test (GPMT) - Guinea pig: Negative |
| Reproductive toxicity | |
| Reproductive toxicity - fertility | - NOAEL 16000 ppm, Inhalation, Rat P |
| Reproductive toxicity - development | - NOAEL: 20000 ppm, Inhalation, Rat |
| Specific target organ toxicity - repeated exposure | |
| STOT - repeated exposure | Conclusive data but not sufficient for classification. |

XYLENE

| | |
|---|---------|
| Acute toxicity - oral | |
| Acute toxicity oral (LD₅₀ mg/kg) | 4,300.0 |
| Species | Rat |
| ATE oral (mg/kg) | 4,300.0 |
| Acute toxicity - dermal | |
| Acute toxicity dermal (LD₅₀ mg/kg) | 2,000.0 |
| Species | Rabbit |
| ATE dermal (mg/kg) | 1,100.0 |
| Acute toxicity - inhalation | |
| Acute toxicity inhalation (LC₅₀ vapours mg/l) | 10.0 |
| Species | Rat |
| ATE inhalation (vapours mg/l) | 10.0 |
| Carcinogenicity | |

AF 178

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

PARATERTIARYBUTYLPHENOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,660.0

Species Rat

ATE oral (mg/kg) 5,660.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 4,100.0

Species Rabbit

ATE dermal (mg/kg) 4,100.0

| |
|---|
| SECTION 12: Ecological Information |
|---|

Ecotoxicity The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1.**Toxicity**

Acute toxicity - fish Not determined.

Acute toxicity - aquatic invertebrates Not determined.

Acute toxicity - aquatic plants Not determined.

Acute toxicity - microorganisms Not determined.

Acute toxicity - terrestrial Not determined.

Chronic toxicity - fish early life stage Not determined.

Short term toxicity - embryo and sac fry stages Not determined.

Chronic toxicity - aquatic invertebrates Not determined.

TOLUENE

Acute toxicity - fish LC₅₀, 96 hours: 13 mg/l, Carassius auratus (Goldfish)
LC₅₀, 96 hours: 24 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 11.5 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 12 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms NOEC, : 29 mg/l, Activated sludge

ADHCON**Hydrocarbons,C6-C7,n-alkanes,isoalkanes,cyclics,<5%n-hexane**

| | |
|--|---|
| Acute toxicity - fish | NOEC, : 1 - 10 mg/l, LC ₅₀ , 96 hours: 1 - 10 mg/l, Algae |
| Acute toxicity - aquatic plants | IC ₅₀ , 72 hours: 10 - 100 mg/l, Fish |
| Acute toxicity - microorganisms | EC ₅₀ , : 1 - 10 mg/l, Activated sludge |

ETHYL ACETATE

| | |
|---|---|
| Acute toxicity - fish | LC50, 96 hours: 230 mg/l, Pimephales promelas (Fat-head Minnow) NOEC, 192 hours: >9.65 mg/l, Pimephales promelas (Fat-head Minnow) |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: 610 mg/l, Daphnia magna NOEC, 192 hours: 2.4 mg/l, Daphnia magna |
| Acute toxicity - aquatic plants | EC ₅₀ , 48 hours: 5,600 mg/l, Freshwater algae |

XYLENE

| | |
|---|--|
| Acute toxicity - fish | LC50, 96 hours: 8.9 - 16.4 mg/l, Pimephales promelas (Fat-head Minnow) EC ₅₀ , 96 hours: 86 mg/l, Leuciscus idus (Golden orfe) |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: 3.2- 9.5 mg/l, Daphnia magna |
| Acute toxicity - aquatic plants | EC ₅₀ , 48 hours: 1 - 10 mg/l, Scenedesmus subspicatus |
| Acute toxicity - microorganisms | , : , |

PARATERTIARYBUTYLPHENOL

| | |
|---|--|
| Acute toxicity - fish | LC50, 96 hours: > 4.71 mg/l, Pimephales promelas (Fat-head Minnow) |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: > 3.5 mg/l, Daphnia magna |

12.2. Persistence and degradability

| | |
|--------------------------------------|---|
| Persistence and degradability | The product is expected to be slowly biodegradable. |
| Phototransformation | Not relevant. |
| Stability (hydrolysis) | Not determined. |
| Biodegradation | Not determined. |
| Biological oxygen demand | Not determined. |
| Chemical oxygen demand | Not determined. |

TOLUENE

| | |
|------------------------|---------------------------------------|
| Persistence and | The product is readily biodegradable. |
|------------------------|---------------------------------------|

ADHCON

Biodegradation - Degradation (%) 86: 20 days
readily biodegradable

Biological oxygen demand 1.23 g O₂/g substance

**ETHYL
ACETATE**

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation (%) 79: 20 days
readily biodegradable

**XYLEN
E**

Biodegradation Water - Degradation (%) 60: > 28 days
readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

**TOLUEN
E**

Bioaccumulative potential The product is not bioaccumulating. BCF: ,

**ETHYL
ACETATE**

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.
BCF: 30, Leuciscus idus (Golden orfe) readily biodegradable

Partition coefficient log Pow: 0.73

12.4. Mobility in soil

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

Adsorption/desorption coefficient Not determined.

Henry's law constant Not determined.

Surface tension Not determined.

**TOLUEN
E**

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

**ETHYL
ACETATE**

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

Adsorption/desorption coefficient Water - Koc: 1.43 @ 25°C

12.5. Results of PBT and vPvB assessment

ADHCON

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

TOLUENE

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

ETHYL ACETATE

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

XYLENE

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 Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste liquid components should be suitable for incineration at an approved facility.

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

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

ADHCON

Transport labels



Packing

14.4. group

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

Environmental

14.5. hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-D

Emergency Action Code 3YE

Hazard Identification Number 33
(ADR/RID)

Tunnel restriction code (D/E)

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

| | |
|--|--|
| National regulations | Control of Pollution Act 1974. Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended). EH40/2005 Workplace exposure limits. |
| EU legislation | Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). 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). |
| Guidance | Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations. |
| Authorisations (Title VII Regulation 1907/2006) | No specific authorisations are known for this product. |
| Restrictions (Title VIII Regulation 1907/2006) | No specific restrictions on use are known for this product. |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

ADHCON

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR : European Agreement concerning the International Transport of Dangerous Goods by Road
 RID : Regulations Concerning the International Transport of Dangerous Goods by Rail
 IMDG : International Maritime Code for Dangerous Goods
 IATA : International Air Transport Association
 ICAO : International Civil Aviation Organization
 GHS : Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS : European Inventory of Existing Commercial Chemical Substances
 CAS : Chemical Abstracts Service
 DNEL ; Derived No Effect Level (REACH)
 PNEC : Predicted No Effect Concentration (REACH)
 LC50 : Lethal Concentration 50 percent
 LD50 : Lethal Dose 50 percent

Key literature references and sources for data

Dangerous Properties of Industrial Materials Report, N.Sax et.al.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

05/10/2015

Revision

14

Supersedes date

05/10/2015

Risk phrases in full

R10 Flammable.
 R11 Highly flammable.
 R20/21 Harmful by inhalation and in contact with skin.
 R36 Irritating to eyes.
 R37/38 Irritating to respiratory system and skin.
 R38 Irritating to skin.
 R41 Risk of serious damage to eyes.
 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 aquatic environment.
 R62 Possible risk of impaired fertility.
 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.

ADHCON

| | |
|----------------------------------|--|
| Hazard statements in full | H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. 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. H361d Suspected of damaging the unborn child. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH208 Contains ROSIN. May produce an allergic reaction. |
|----------------------------------|--|

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.