

WAYSIDE ADHESIVES.COM

SAFETY DATA SHEET HTA1000

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

1.1. Product identifier

Product name	HTA1000
Product number	HTA1000

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

Wayside Adhesives Ltd
23 Main Road
Radcliffe on Trent
Nottingham
NG12 2BE
Tel: 01159 33 33 21

Email: info@waysideadhesives.com

1.4. Emergency telephone number

Emergency telephone	01159 33 33 21
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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

HTA1000**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**

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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	

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XYLENE		<1%
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01-2119488216-32
Classification Flam. Liq. 3 - H226 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	Classification (67/548/EEC or 1999/45/EC) R10 Xn;R20/21 Xi;R38	
HEXANE-norm		<1%
CAS number: 110-54-3	EC number: 203-777-6	
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	Classification (67/548/EEC or 1999/45/EC) F;R11 Repr. Cat. 3;R62 Xn;R48/20,R65 Xi;R38 R67 N;R51/53	

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

HTA1000

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

HTA1000**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

HTA1000

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>
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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.

HTA1000

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 (CO₂). 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

damage/irritation

Serious eye

damage/irritation

Not determined.

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.

HTA1000

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

HTA1000

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.

**PARATERTIARYBUTYLPHENO
L**

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

HTA1000**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.
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HTA1000

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

HTA1000**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

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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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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.

HTA1000**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.

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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.