

# Material Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

## 1. Product and Company Identification

Product Name: TF-98 (Craftsman Contact Cement)  
 Chemical Name: Polychloroprene Adhesive Blend/Compound  
 Manufacturer: R-H Products Co. Inc. 308 Old High Street Acton, MA USA 01720  
 Information Telephone Number: 1-978-897-800  
 Emergency Telephone Number: 1-800-535-5053 INFOTRAC  
 Foreign Emergency Telephone Number: 1-352-323-3500 INFOTRAC

## 2. Composition/Information on Ingredients

Hazardous Components (Specific Chemical Identity, Common Name(s))

		OSHA PEL	ACGIH TLV	Other Limits Recommended	By Weight % (optional)
Heptane	CAS# 142-82-5	500 ppm	500 ppm		17.2%
Methyl Ethyl Ketone	CAS# 78-93-3	300 ppm	300 ppm		10.9%
Ethyl Acetate	CAS# 141-78-6	400 ppm	400 ppm		11.7%
Acetone	CAS# 67-64-1	1000 ppm	750 ppm		30.3%
Tert-Butyl Acetate	CAS# 540-88-5	200 ppm	200 ppm		9.7%

## 3. Hazards Identification

Route(s) of Entry	Primary	Inhalation?	Yes	Skin?	Yes	Ingestion?	Yes
Health Hazards ( <i>Acute and Chronic</i> )	Eyes – Liquid mildly irritating. Overexposure may also cause irritation and possible dermatitis. Breathing – Overexposure may cause irritation to respiratory system. Extreme overexposure to vapors may result in central nervous system, liver and kidney damage. Ingestion – May cause gastrointestinal irritation.						
Carcinogenicity	None (No)	NTP?	N/A	IARC Monographs?	N/A	OSHA Regulated?	N/A
Signs and Symptoms of Exposure	Eyes – Redness, tearing and swelling. Skin – Dryness of skin including cracking. Breathing – Overexposure includes dizziness, headache, nausea, and light headedness. Swallowing – Nausea, vomiting, and diarrhea						

Medical Conditions Skin – Prolonged contact will irritate skin and may cause dermatitis. Breathing – Extreme overexposure to vapors may cause nervous system damage. Swallowing – May cause nausea, vomiting and diarrhea. Aspiration into the lungs as a result of vomiting may cause lung damage.

#### 4. First Aid Measures

Emergency and First Aid Procedures  
 Eye contact – Flush immediately with water. Call a physician. Skin contact – Wash area with soap and water. Breathing – Move affected person to fresh air at once. Restore breathing. Call a physician if difficulties persist. If swallowed – DO NOT INDUCE VOMITING. Call a physician. Give water to victim. If vomiting occurs, prevent aspiration into lungs by lowering head between knees.

#### 5. Fire Fighting Measures

Flash Point (Method Used)	Component(Acetone) 0 F	Flammable Limits	LEL 1%	UEL 12%
Extinguishing Media	FOAM, DRY CHEMICAL, CO <sub>2</sub>			
Special Fire Fighting Procedures	Fire Fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.			
Unusual Fire and Explosion Hazards	Extremely Flammable. Overheated, closed container near a fire could explode due to pressure buildup.			

#### 6. Accidental Release Measures

Steps to Be Taken in Case Material Is Released or Spilled  
 Extinguish all sources of ignition in area. Collect spilled material and place in a closed container for disposal or salvage.

#### 7. Handling and Storage

Precautions to Be Taken in Handling and Storing  
 Keep away from heat; open flames and sparks. Use and store with adequate ventilation to prevent vapor buildup. Vapors released by product can easily ignite.

Other Precautions  
 Avoid contact with skin and eyes. Avoid prolonged breathing of vapors. Keep container closed when not in use.  
**KEEP OUT OF REACH OF CHILDREN**

### 8. Exposure Control/Personal Protection

Respiratory Protection ( <i>Specify Type</i> )		If exposure exceeds occupational exposure limits use a NIOSH approved respirator to prevent overexposure. Per 29 CFR 1910.134 CCROV or SA types recommended.	
Ventilation	Local Exhaust	Should be used to maintain exposure below TLV(s)	Special Explosion proof ventilation maybe required to control vapor concentrations.
	Mechanical ( <i>General</i> )	Should be used to maintain exposure below TLV(s)	Other N/D
Protective Gloves	Impervious gloves; (for Solvent)		Eye Protection Chemical goggles or safety glasses
Other Protective Clothing or Equipment		Work apron to avoid contact with personal clothing and skin.	
Work/Hygienic Practices		Keep area clean. Wash hands thoroughly after working with product.	

### 9. Physical and Chemical Properties

Boiling Point	Acetone (Component)	132° F	Specific Gravity (H <sub>2</sub> O = 1)	Approx. .82
Vapor Pressure (mm Hg)	at 68° F	Not established	Melting Point	N/D
Vapor Density (AIR = 1)		Heavier	Evaporation Rate (Butyl Acetate = 1)	Slower
Solubility in Water	Insoluble in water			
Appearance and Odor	Normal Physical State: Liquid with Amber and Strong fruity odor			

### 10. Stability and Reactivity

Stability	Unstable		Conditions to Avoid
	Stable	X	N/A
Incompatibility ( <i>Materials to Avoid</i> )		Oxidizing Agents, Acids, Alkali's, and Nitrates	
Hazardous Decomposition or Byproducts		CO <sub>2</sub> , HCL, CO when subjected to flames or excessive heat	
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

## 11. Toxicological Information

Route(s) of Entry: Skin contact, inhalation, eye contact and ingestion. Irritant. No other data.

## 12. Ecological Information

No data available

## 13. Disposal Considerations

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Waste Disposal Method
Dispose in accordance with local and current U.S. E.P.A. regulations.

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U.S. E.P.A. Hazardous Waste Number: D001 (Ignitable)

## 14. Transport Information

DOT Information: UN1133, ADHESIVES, 3, PGII , Ltd Qty (1.3gal) ERG #128  
Optional information: Consumer Commodity ORM-D for small containers only  
IMO Information: see US DOT above.

## 15. Regulatory Information

### Federal and State and Other regulations:

Methyl Ethyl Ketone is subject to the reporting requirements of section 313 of SARA Title II

TASCA 8(b) inventory: all components are listed.

Components only are listed under various state RTK and reporting lists.

OSHA: Hazardous by definition in Hazard Communication Standard (29 CFR 1910.1200)

EINECS: Components are on the European Inventory of Existing Commercial Chemical Substances

WHMIS (Canada) Class B-2(flash point) and Class D-2B (toxic)

DSCL (EEC) Components listed as R11 Highly flammable, R36/37 Irritating to eyes and respiratory system,

S2 Keep out of reach of children, S16 Keep away from sources of ignition-No smoking, S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

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## **16. Other Information**

**Regulated VOC's by weight 40% - 2.77 lbs/gal - 333 g/l**

HMIS Ratings: Health-1; Flammability-3; Reactivity-0      Key- 4 Extreme,3 High,2 Moderate,1 Slight

NFPA Ratings: Health-2; Flammability-3; Reactivity-0

**Dated August 18, 2011**

The information above is believed to be accurate and represents the information currently available to us. We however, make no warranty of merchantability or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from its use.

# Tanner's Bond Craftsman Contact Cement

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 03/10/2014

Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product Name : Tanner's Bond Craftsman Contact Cement  
Synonyms : Polychloroprene Adhesive Blend/Compound

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

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Company

RH Products Co., Inc.  
308 Old High Street  
Acton, MA USA 01720  
Information Telephone Number: 1-978-897-8000  
email: [sales@rhadhesives.com](mailto:sales@rhadhesives.com)

#### 1.4. Emergency telephone number

Emergency number : 1-800-535-5053 INFOTRAC; 1-352-323-3500 INFOTRAC International

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225

Skin Irrit. 2 H315

Eye Irrit. 2 H319

STOT SE 3 H336

Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R36/38

R67

N; R51/53

F; R11

Full text of R-phrases: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazardous ingredients

: n-Heptane, Ethyl acetate, Acetone, Methyl ethyl ketone

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

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- P241 - Use explosion-proof electrical, lighting, ventilating equipment.  
P261 - Avoid breathing mist, spray, vapours.  
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P303+P361+P353+P352 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a POISON CENTER or doctor if you feel unwell.  
P321 - Specific treatment (see Section 4 on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>) to extinguish.  
P391 - Collect spillage.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P235+P405 - Keep cool. Store locked up.  
P501 - Dispose of contents/container according to local, regional, national, and international regulations.  
: EUH066 - Repeated exposure may cause skin dryness or cracking.

EUH phrases

## 2.3. Other Hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Acetone	(CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8	30,3	F; R11 Xi; R36 R66 R67
n-Heptane	(CAS No) 142-82-5 (EC no) 205-563-8 (EC index no) 601-008-00-2	17,2	F; R11 Xi; R38 N; R50/53 Xn; R65 R67
Ethyl acetate	(CAS No) 141-78-6 (EC no) 205-500-4 (EC index no) 607-022-00-5	11,7	F; R11 Xi; R36 R66 R67
Methyl ethyl ketone	(CAS No) 78-93-3 (EC no) 201-159-0 (EC index no) 606-002-00-3	10,9	F; R11 Xi; R36 R66 R67
tert-Butyl acetate	(CAS No) 540-88-5 (EC no) 208-760-7;307-276-4 (EC index no) 607-026-00-7	9,7	F; R11 R66

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetone	(CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8	30,3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
n-Heptane	(CAS No) 142-82-5 (EC no) 205-563-8 (EC index no) 601-008-00-2	17,2	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ethyl acetate	(CAS No) 141-78-6 (EC no) 205-500-4 (EC index no) 607-022-00-5	11,7	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Methyl ethyl ketone	(CAS No) 78-93-3 (EC no) 201-159-0 (EC index no) 606-002-00-3	10,9	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
tert-Butyl acetate	(CAS No) 540-88-5 (EC no) 208-760-7;307-276-4 (EC index no) 607-026-00-7	9,7	Flam. Liq. 2, H225

Full text of R- and H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Using proper respiratory protection, immediately move the exposed person to fresh air. Assure fresh air breathing. Call a physician if symptoms occur.
- First-aid measures after skin contact : Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

- Symptoms/injuries : Causes skin irritation. Causes serious eye irritation. Vapours may cause drowsiness and dizziness.
- Symptoms/injuries after inhalation : High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.
- Symptoms/injuries after skin contact : Causes skin irritation. Repeated exposure may cause skin dryness or cracking.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after ingestion : Ingestion is likely to be harmful or have adverse effects.
- Chronic symptoms : Suspected of damaging fertility or the unborn child.

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

If exposed or concerned, get medical advice and attention.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Highly flammable liquid and vapour.
- Explosion hazard : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Reactivity : Reacts violently with oxidants causing fire and explosion hazard.

### 5.3. Advice for firefighters

- Precautionary measures fire : Exercise caution when fighting any chemical fire.



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- Firefighting instructions : Use water spray or fog for cooling exposed containers. Do not get water inside containers. Do not apply water stream directly at source of leak. Fight fire from safe distance and protected location.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Refer to Section 9 for flammability properties.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not get in eyes, on skin, or on clothing. Do not breathe vapour or mist.

#### 6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).  
Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area. Eliminate ignition sources. Stop leak if safe to do so.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material.  
Methods for cleaning up : Clear up spills immediately and dispose of waste safely. Use only non-sparking tools.

### 6.4. Reference to other sections

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.  
Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.  
Storage conditions : Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place.  
Incompatible products : Strong acids. Strong bases. Strong oxidizers.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

n-Heptane (142-82-5)		
EU	IOELV TWA (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	500 ppm
Austria	MAK (mg/m <sup>3</sup> )	2000 mg/m <sup>3</sup> (all isomers)
Austria	MAK (ppm)	500 ppm (all isomers)
Austria	MAK Short time value (mg/m <sup>3</sup> )	8000 mg/m <sup>3</sup> (all isomers)
Austria	MAK Short time value (ppm)	2000 ppm (all isomers)
Belgium	Limit value (mg/m <sup>3</sup> )	1664 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	400 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	500 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	1600 mg/m <sup>3</sup>
Cyprus	OEL TWA (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup>

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<b>n-Heptane (142-82-5)</b>		
Cyprus	OEL TWA (ppm)	500 ppm
France	VLE (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup> (restrictive limit)
France	VLE (ppm)	500 ppm (restrictive limit)
France	VME (mg/m <sup>3</sup> )	1668 mg/m <sup>3</sup> (restrictive limit)
France	VME (ppm)	400 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	2100 mg/m <sup>3</sup> (all isomers)
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm (all isomers)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	400 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	500 ppm
Italy	OEL TWA (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	500 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	85 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (ppm)	500 ppm (indicative limit value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	1600 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	500 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	6255 mg/m <sup>3</sup> (calculated)
United Kingdom	WEL STEL (ppm)	1500 ppm (calculated)
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	820 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	200 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	300 ppm
Finland	HTP-arvo (15 min)	2100 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	500 ppm
Hungary	AK-érték	2000 mg/m <sup>3</sup>
Hungary	CK-érték	8000 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	500 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	3128 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	750 ppm
Malta	OEL TWA (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	500 ppm
Poland	NDS (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	2000 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	500 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	500 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	800 mg/m <sup>3</sup>

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<b>n-Heptane (142-82-5)</b>		
Sweden	nivågränsvärde (NVG) (ppm)	200 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	300 ppm
Portugal	OEL TWA (mg/m <sup>3</sup> )	2085 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL TWA (ppm)	500 ppm (indicative limit value)
Portugal	OEL STEL (ppm)	500 ppm
<b>Ethyl acetate (141-78-6)</b>		
Austria	MAK (mg/m <sup>3</sup> )	1050 mg/m <sup>3</sup>
Austria	MAK (ppm)	300 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	2100 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	600 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	1461 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	400 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	800 mg/m <sup>3</sup>
France	VME (mg/m <sup>3</sup> )	1400 mg/m <sup>3</sup>
France	VME (ppm)	400 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	1500 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	400 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	400 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	1460 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	400 ppm
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (ppm)	400 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	700 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	1100 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	300 ppm
Finland	HTP-arvo (15 min)	1800 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	500 ppm
Hungary	AK-érték	1400 mg/m <sup>3</sup>
Hungary	CK-érték	1400 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	400 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	150 ppm
Lithuania	NRV (mg/m <sup>3</sup> )	1100 mg/m <sup>3</sup>
Lithuania	NRV (ppm)	300 ppm
Poland	NDS (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Poland	NDSCh (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	111 ppm

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<b>Ethyl acetate (141-78-6)</b>		
Romania	OEL STEL (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	139 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1500 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	400 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	1100 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	1100 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	300 ppm
Portugal	OEL TWA (ppm)	400 ppm
<b>Acetone (67-64-1)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	500 ppm
Austria	MAK (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Austria	MAK (ppm)	500 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	4800 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	2000 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	500 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	1000 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	1400 mg/m <sup>3</sup>
Cyprus	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Cyprus	OEL TWA (ppm)	500 ppm
France	VLE (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup> (restrictive limit)
France	VLE (ppm)	1000 ppm (restrictive limit)
France	VME (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup> (restrictive limit)
France	VME (ppm)	500 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm
Germany	TRGS 903 (BGW)	80 mg/l (Medium: urine - Time: end of shift - Parameter: Acetone)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	500 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	750 ppm
Italy	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	500 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	500 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (ppm)	500 ppm (indicative limit value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	500 ppm

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<b>Acetone (67-64-1)</b>		
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	3620 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	1500 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	800 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	250 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	500 ppm
Finland	HTP-arvo (15 min)	1500 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	630 ppm
Hungary	AK-érték	1210 mg/m <sup>3</sup>
Hungary	CK-érték	2420 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	500 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	1000 ppm
Malta	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	500 ppm
Poland	NDS (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	500 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	500 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	250 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	500 ppm
Portugal	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL TWA (ppm)	500 ppm (indicative limit value)
Portugal	OEL STEL (ppm)	750 ppm
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen
<b>Methyl ethyl ketone (78-93-3)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	300 ppm
Austria	MAK (mg/m <sup>3</sup> )	295 mg/m <sup>3</sup>
Austria	MAK (ppm)	100 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	200 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	300 ppm

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<b>Methyl ethyl ketone (78-93-3)</b>		
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	885 mg/m <sup>3</sup>
Cyprus	OEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Cyprus	OEL TWA (ppm)	200 ppm
Cyprus	OEL STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Cyprus	OEL STEL (ppm)	300 ppm
France	VLE (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup> (restrictive limit)
France	VLE (ppm)	300 ppm (restrictive limit)
France	VME (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup> (restrictive limit)
France	VME (ppm)	200 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 (BGW)	5 mg/l (Medium: urine - Time: end of shift - Parameter: 2-Butanone)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	300 ppm
Italy	OEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	200 ppm
Italy	OEL STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	300 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	67 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (ppm)	200 ppm (indicative limit value)
Spain	VLA-EC (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	300 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	899 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	300 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	145 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	300 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Hungary	AK-érték	600 mg/m <sup>3</sup>
Hungary	CK-érték	900 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	300 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>

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<b>Methyl ethyl ketone (78-93-3)</b>		
Lithuania	IPRV (ppm)	200 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	300 ppm
Malta	OEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	200 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	300 ppm
Poland	NDS (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	200 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	300 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	200 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	100 ppm
Portugal	OEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL TWA (ppm)	200 ppm (indicative limit value)
Portugal	OEL STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL STEL (ppm)	300 ppm (indicative limit value)
<b>tert-Butyl acetate (540-88-5)</b>		
Austria	MAK (mg/m <sup>3</sup> )	96 mg/m <sup>3</sup>
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	96 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	20 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	964 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	200 ppm
France	VME (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
France	VME (ppm)	200 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	42 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	966 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	200 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	966 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	250 ppm

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tert-Butyl acetate (540-88-5)		
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	720 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	150 ppm
Finland	HTP-arvo (15 min)	960 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	200 ppm
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	1190 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	250 ppm
Poland	NDS (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	96 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	100 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	700 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	150 ppm
Portugal	OEL TWA (ppm)	200 ppm

## 8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Gas detectors should be used when flammable gases/vapours may be released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated above. All electrical equipment should comply with the National Electric Code. Ensure all national/local regulations are observed.

Personal protective equipment

: Full protective flameproof clothing. Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



Materials for protective clothing

: Wear fire/flare resistant/retardant clothing.

Hand protection

: Wear chemically resistant protective gloves.

Eye protection

: Chemical goggles or safety glasses.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

Other information

: When using, do not eat, drink or smoke.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Amber.
Odour	: Strong fruity odor.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available



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Freezing point	: No data available
Boiling point	: > 35 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: > 1 (heavier than air)
Relative density	: 0,82 (water = 1)
Solubility	: Insoluble in water.
Partition coefficient: n-octanol/water	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 1 - 12 vol %

### 9.2. Other information

VOC content : 40 % (2.77 lbs/gal or 333 g/l)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts violently with oxidants causing fire and explosion hazard.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>n-Heptane (142-82-5)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat (mg/l)	103 g/m <sup>3</sup> (Exposure time: 4 h)
ATE CLP (dermal)	3000,000 mg/kg bodyweight
ATE CLP (vapours)	103,000 mg/l/4h
ATE CLP (dust,mist)	103,000 mg/l/4h
<b>Ethyl acetate (141-78-6)</b>	
LD50 oral rat	5620 mg/kg
LD50 dermal rabbit	> 20 ml/kg
ATE CLP (oral)	5620,000 mg/kg bodyweight
<b>Acetone (67-64-1)</b>	
LD50 oral rat	5800 mg/kg
LD50 dermal rabbit	15688 mg/kg
LC50 inhalation rat (mg/l)	44 g/m <sup>3</sup>
ATE CLP (oral)	5800,000 mg/kg bodyweight
ATE CLP (dermal)	15688,000 mg/kg bodyweight
ATE CLP (vapours)	44,000 mg/l/4h

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<b>Acetone (67-64-1)</b>	
ATE CLP (dust,mist)	44,000 mg/l/4h
<b>Methyl ethyl ketone (78-93-3)</b>	
LD50 oral rat	2054 mg/kg
LD50 dermal rat	> 10 ml/kg
LC50 inhalation rat (mg/l)	23500 mg/m <sup>3</sup> (Exposure time: 8 h)
ATE CLP (oral)	2054,000 mg/kg bodyweight
ATE CLP (vapours)	23500,000 mg/l/4h
ATE CLP (dust,mist)	23500,000 mg/l/4h
<b>tert-Butyl acetate (540-88-5)</b>	
LD50 oral rat	4500 mg/kg
LD50 dermal rabbit	> 2000
LC50 inhalation rat (mg/l)	> 2230 mg/m <sup>3</sup> (Exposure time: 4 h)
LC50 inhalation rat (ppm)	5157 ppm/4h
ATE CLP (oral)	4500,000 mg/kg bodyweight
ATE CLP (gases)	5157,000 ppmv/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

<b>n-Heptane (142-82-5)</b>	
LC50 fishes 1	375,0 mg/l (Exposure time: 96 h - Species: Cichlid fish)
<b>Ethyl acetate (141-78-6)</b>	
LC50 fishes 1	220 - 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
<b>Acetone (67-64-1)</b>	
LC50 fishes 1	4144,846 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	1679,66 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	6210 (6210 - 8120) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	12600 (12600 - 12700) mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Methyl ethyl ketone (78-93-3)</b>	
LC50 fishes 1	3130 (3130 - 3320) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	520 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Daphnia 2	5091 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>tert-Butyl acetate (540-88-5)</b>	
LC50 fishes 1	296 - 362 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

### 12.2. Persistence and degradability

<b>Acetone (67-64-1)</b>	
Persistence and degradability	Readily biodegradable in water.

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## 12.3. Bioaccumulative potential

<b>n-Heptane (142-82-5)</b>	
Log Pow	4,66
<b>Ethyl acetate (141-78-6)</b>	
BCF fish 1	30
Log Pow	0,6
<b>Acetone (67-64-1)</b>	
BCF fish 1	0,69
Log Kow	-0,24
<b>Methyl ethyl ketone (78-93-3)</b>	
Log Pow	0,29
<b>tert-Butyl acetate (540-88-5)</b>	
Log Pow	1,38

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

<b>Acetone (67-64-1)</b>
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## 12.6. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional information : Handle empty containers with care because residual vapours are flammable. RCRA Waste Number: D001.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : 1133

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ADHESIVES  
Transport document description (ADR) : UN 1133 ADHESIVES, 3, I, (D/E)

### 14.3. Transport hazard class(es)

Class (ADR) : 3  
Hazard labels (ADR) : 3



### 14.4. Packing group

Packing group (ADR) : II

### 14.5. Environmental hazards

Dangerous for the environment :



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according to Regulation (EC) No. 453/2010

## 14.6. Special precautions for user

### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 33

Classification code (ADR) : F1

Orange plates :



Transport category (ADR) : 1

Tunnel restriction code (ADR) : D/E

Limited quantities (ADR) : 500ml

Excepted quantities (ADR) : E3

EAC code : •3YE

### 14.6.2. Transport by sea

MFAG-No : 127;128

### 14.6.3. Air transport

No additional information available

## 14.7. 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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Tanner's Bond Craftsman Contact Cement
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Tanner's Bond Craftsman Contact Cement

Contains no REACH candidate substance

VOC content : 40 % (2.77 lbs/gal or 333 g/l)

#### 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Revision date : 03/10/2014

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Full text of R-, H- and EUH-phrases:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation

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H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
R11	Highly flammable
R36	Irritating to eyes
R36/38	Irritating to eyes and skin
R38	Irritating to skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

*The information above is believed to be accurate and represents the information currently available to us. We however, make no warranty of merchantability or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from its use.*