

**Safety data sheet in accordance with regulation (EC) No 1907/2006**

Trade name: Treatex Hardener for Hardwax Oil 1140

Version: 1 / GB

Date created/revised: 18.02.11

Replaces Version: - / GB

Date of printing: 15.07.11

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Treatex Hardener for Hardwax Oil 1140

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

#### Use of the substance/preparation

Surface treatment of wood and other materials

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

#### Producer

Treatex Ltd, Unit I, Howland Road Business Park,  
Howland Road, Thame, Oxfordshire,  
OX9 3GQ

Telephone no. +44 (0) 1844 260416

Fax no. +44 (0) 1844 358160

E-mail address info@treatex.co.uk

### 1.4. Emergency telephone number

+49 (0) 30 30686790

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

Reference to other sections 2.2. Label elements

### 2.2. Label elements

#### Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

#### Hazard symbols



Irritant

#### R phrases

- |    |   |
|----|---|
| 10 | Flammable.  |
| 43 | May cause sensitisation by skin contact.              |
| 66 | Repeated exposure may cause skin dryness or cracking. |
| 67 | Vapours may cause drowsiness and dizziness.           |

#### S phrases

- |      |   |
|------|---|
| 2    | Keep out of the reach of children.  |
| 23.6 | Do not breathe spray, vapour.   |
| 24   | Avoid contact with skin.  |
| 37   | Wear suitable gloves.   |
| 46   | If swallowed, seek medical advice immediately and show this container or label. |
| 51   | Use only in well-ventilated areas.  |

#### Hazardous component(s) to be indicated on label

polyisocyanate, aliphatic

#### Special labelling for certain preparations

Contains isocyanates. See information supplied by the manufacturer.

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### Sensitising substances

#### 2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### 3. Composition/information on ingredients

#### Hazardous ingredients

##### polyisocyanate, aliphatic

CAS no.	28182-81-2			
EINECS no.	500-060-2			
Concentration		>=	50	%

##### hexamethylene-di-isocyanat

CAS no.	822-06-0			
EINECS no.	212-485-8			
Registration no.	01-2119457571-37			
Concentration		<	1	%
Classification	Xi, R36/37/38 R42/43 T, R23			

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H302	Route of exposure: Oral exposure
Acute Tox. 1	H330	Route of exposure: Inhalation exposure
Eye Irrit. 2	H319	
STOT SE 3	H335	
Skin Irrit. 2	H315	
Resp. Sens. 1	H334	
Skin Sens. 1	H317	

##### n-butyl acetate

CAS no.	123-86-4					
EINECS no.	204-658-1					
Registration no.	01-2119485493-29					
Concentration		>=	25	<	50	%
Classification	R10 R66 R67					

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3	H226
STOT SE 3	H336
	EUH066

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

### 4. First aid measures

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#### 4.1. Description of first aid measures

##### General information

When symptoms persist or in all cases of doubt seek medical advice. If unconscious place in recovery position and seek medical advice. First aider needs to protect himself. Move out of dangerous area.

##### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Keep patient warm and at rest. Consult a physician for severe cases.

##### After skin contact

Wash off immediately with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.

##### After eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

##### After ingestion

Do NOT induce vomiting. Consult a physician.

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

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition.

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

##### Hints for the physician / treatment

Treat symptomatically.

#### 5. Firefighting measures

##### 5.1. Extinguishing media

###### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

###### Non Suitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

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

Vapours may form explosive mixtures with air.

##### 5.3. Advice for firefighters

###### Other information

Standard procedure for chemical fires.

#### 6. Accidental release measures

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

Remove all sources of ignition. Ensure adequate ventilation. Avoid breathing vapours, mist or gas.

##### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Contact the proper local authorities.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth,

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diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated floors and objects thoroughly while observing environmental regulations. Clean with detergents. Avoid solvents. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8.

## 7. Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Take precautionary measures against static discharges. Wear shoes with conductive soles. No sparking tools should be used. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. When using, do not eat, drink or smoke. For personal protection see section 8.

#### Advice on protection against fire and explosion

Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Standard procedure for chemical fires.

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

#### Requirements for storage rooms and vessels

Keep in an area equipped with solvent resistant flooring. Store at room temperature in the original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Hints on storage assembly

Keep away from oxidising agents, strongly acid or alkaline materials, as well as of amines, alcohols and water.

#### Storage class according to the Occupation Safety Ordinance:

Flammable.

#### Further information on storage conditions

Protect from frost, heat and sunlight. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### hexamethylene-di-isocyanat

List	EH40		
Type	OEL		
Value	0,02	mg/m <sup>3</sup>	
Short term exposure limit	0,07	mg/m <sup>3</sup>	
Status: 2005;			

##### n-butyl acetate

List	EH40		
Value	724	mg/m <sup>3</sup>	150 ppm(V)

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Short term exposure limit      966      mg/m<sup>3</sup>      200      ppm(V)  
Status: 2005;

### 8.2. Exposure controls

#### Exposure controls

Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

#### Respiratory protection

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Recommended Filter type: Combination filter: A2-P2 (EN 141, 143, 371)

#### Hand protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material      Fluorinated rubber / butyl-rubber

This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

#### Eye protection

Safety glasses with side-shields conforming to EN166

#### Body protection

Wear suitable protective clothing. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

### 9. Physical and chemical properties

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

**Form**      liquid  
**Colour**      colourless  
**Odour**      solvent-like

#### Boiling point

Value      124      to      128      °C

#### Flash point

Value      23      to      35      °C

#### Explosion limits

Remarks      no data available

#### Density

Value      0,986      to      1,006      g/cm<sup>3</sup>  
Temperature      20      °C

#### Solubility in water

Remarks      Decomposes in contact with water.

#### Ignition temperature

Remarks      no data available

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### Efflux time

Value	21	to	49	s
Temperature	20	°C		
method	DIN EN ISO 2431 - 4 mm			

## 10. Stability and reactivity

### 10.1. Reactivity

No conditions to be specially mentioned.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Amines and alcohols cause exothermic reactions. Mixture reacts slowly with water resulting in evolution of CO<sub>2</sub>. Evolution of CO<sub>2</sub> in closed containers causes overpressure and produces a risk of bursting.

### 10.6. Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke. hydrogen cyanide (hydrocyanic acid), No decomposition if stored normally.

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity (Components)

##### n-butyl acetate

Species	rat		
LD50		10760	mg/kg

##### hexamethylene-di-isocyanat

Species	rat		
LD50		746	mg/kg

#### Acute dermal toxicity (Components)

##### n-butyl acetate

Species	rabbit		
LD50	>	14000	mg/kg

#### Acute inhalative toxicity (Components)

##### n-butyl acetate

Species	rat		
		23,4	mg/l
Duration of exposure	4	h	

##### hexamethylene-di-isocyanat

Species	rat		
LC50		0,124	mg/l
Duration of exposure	4	h	

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### Subacute, subchronic, chronic toxicity (Components)

#### n-butyl acetate

Species	rat		
Dose	500		ppm(m)
Duration of exposure	90	d	
method	EPA OTS 798.2450		

### Reproduction toxicity (Components)

#### n-butyl acetate

Species	rat		
Dose	2000		ppm(m)
Duration of exposure	90	d	
method	OECD 416		
Remarks	NOAEC		
Species	rat		
Dose	1500		ppm(m)
Remarks	LOAEC		
valuation	No toxicity to reproduction		

### Other information

No data is available on the product itself.

## 12. Ecological information

### 12.1. Toxicity

#### General information

No data is available on the product itself.

#### Fish toxicity (Components)

##### n-butyl acetate

Species	Pimephales promelas (fathead minnow)		
	18		mg/l
Duration of exposure	96	h	
method	OECD 203		

#### Daphnia toxicity (Components)

##### n-butyl acetate

Species	Daphnia magna (Water flea)		
	44		mg/l
Duration of exposure	48	h	

#### Algae toxicity (Components)

##### n-butyl acetate

	647,7		mg/l
Duration of exposure	72	h	

#### Bacteria toxicity (Components)

##### n-butyl acetate

Species	Tetrahymena pyriformis		
	356		mg/l
Duration of exposure	40	h	

### 12.2. Persistence and degradability

#### General information

No data is available on the product itself.

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### Biodegradability (Components)

#### n-butyl acetate

Value	83	%
Duration of test	28	d

### 12.3. Bioaccumulative potential

#### General information

No data is available on the product itself.

#### Octanol/water partition coefficient (log Pow) (Components)

##### n-butyl acetate

### 12.4. Mobility in soil

#### General information

No data is available on the product itself.

#### Mobility

no data available

### 12.5. Results of PBT and vPvB assessment

#### General information

not applicable

### 12.6. Other adverse effects

#### General information

No data is available on the product itself.

#### General information / ecology

No data is available on the product itself.

## 13. Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

EWC waste code	080111 - waste paint and varnish containing organic solvents or other dangerous substances
EWC waste code	200127 - paint, inks, adhesives and resins containing dangerous substances

Where possible recycling is preferred to disposal or incineration.  
Try to prevent the material from entering drains or water courses.

#### modified product

EWC waste code	080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances
EWC waste code	080113 - sludges from paint or varnish containing organic solvents or other dangerous substances

#### Dried residues

EWC waste code	080112 - waste lacquers and waste paint except those falling under 080111
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#### Disposal recommendations for packaging

EWC waste code	150110 - packaging containing residues of or contaminated by dangerous substances
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Empty remaining contents.

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Empty containers should be taken to local recyclers for disposal.

### 14. Transport information

#### Land transport ADR/RID

**14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

PAINT

**14.3. Transport hazard class(es)**

Class 3

Label 3

**14.4. Packing group**

Packing group III

Special provision 640E

Limited Quantity LQ7

#### Marine transport IMDG/GGVSee

**14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

PAINT

**14.3. Transport hazard class(es)**

Class 3

**14.4. Packing group**

Packing group III

**14.5. Environmental hazards**

no

#### Air transport ICAO/IATA

**14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

PAINT

**14.3. Transport hazard class(es)**

Class 3

**14.4. Packing group**

Packing group III

### 15. Regulatory information

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

**VOC**

VOC (EU) 47,5 %

### 16. Other information

**R-phrases listed in chapter 3**

10	Flammable.
23	Toxic by inhalation.
36/37/38	Irritating to eyes, respiratory system and skin.
42/43	May cause sensitisation by inhalation and skin contact.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

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### Hazard statements listed in chapter 3

EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

### Abbreviations

Flam. Liq - Flammable liquids  
ACUTE TOX. Acute toxicity  
EYE IRRIT. - Serious eye damage/eye irritation  
MUTA. - Germ cell mutagenicity  
ASP. TOX. - Aspiration hazard  
CARC. - Carcinogenicity  
REPR. - Reproductive toxicity  
SKIN CORR. - Skin corrosion  
SKIN IRRIT. - Skin irritation  
EYE DAM. - Serious eye damage  
EYE IRRIT. - Eye irritation  
RESP. SENS. / SKIN SENS. - Respiratory/skin sensitisation  
AQUATIC CHRONIC/AQUATIC ACUTE - Hazardous to the aquatic environment  
STOT SE. - Specific target organ toxicity - single exposure  
STOT RE. - Specific target organ toxicity - repeated exposure  
EXPL. - Explosives  
FLAM. GAS - Flammable gases  
FLAM. AEROSOL - Flammable aerosols  
OX. GAS - Oxidising gases  
PRESS. GAS - Gases under pressure  
FLAM. LIQ. - Flammable liquids  
FLAM. SOL. - Flammable solids  
SELF-REACT Self-reactive substances and mixtures  
PYR. LIQ. - Pyrophoric liquids  
PYR. SOL. - Pyrophoric solids  
SELF-HEAT - Self-heating substance and mixtures  
WATER-REACT. . Substances and mixtures, which in contact with water, emit flammable gases  
OX. LIQ. - Oxidizing liquids  
OX. SOL. - Oxidizing solids  
ORG. PEROX. - Organic peroxides  
MET. CORR. - Corrosive to metals  
ADR - Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG - International Maritime Code for Dangerous Goods  
IATA - International Air Transport Association  
IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS - European Inventory of Existing Commercial Chemical Substances  
CAS - Chemical Abstracts Service (division of the American Chemical Society)

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GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

Changes since the last version are highlighted in the margin (\*\*\*). This version replaces all previous versions.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The 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, unless specified in the text.

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.