

Trade name: Treatex Hardener for Hardwax Oil 1140

Version: 3 / GB

Date created/revised: 25.08.11

Replaces Version: 2 / GB

Date of printing: 20.09.11

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 Whittle Waxes PTY LTD

Factory 13, 25 Quanda Road,

Coolum Beach QLD 4573, Australia

Telephone no. +61 07 5471 7963

E-mail address info@whittlewaxes.com.au

1.4. Emergency telephone number

 Emergency contact +61 1300 326 929

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



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

Sensitising substances

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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
R6
6
R6
7

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

Flam. Liq. 3	H226
STOT SE 3	H336
	EUH066

Further hazardous ingredients

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

4. First aid measures

4.1. Description of first aid measures

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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

Treats 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, 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

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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 ³	
Short term exposure limit	0,07	mg/m ³	
Status: 2005;			

n-butyl acetate

List	EH40			
Value	724	mg/m ³	150	ppm(V) Short
term exposure limit	966	mg/m ³	200	ppm(V) Status: 2005;

Derived No/Minimal Effect Levels (DNEL/DMEL)

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n-butyl acetate

Type of value DNEL
 Reference group Workers
 Duration of exposure Long-term
 Route of exposure Dermal exposure
 Concentration 7 mg/kg/d

Type of value DNEL
 Reference group Workers
 Duration of exposure Short-term
 Concentration 960 mg/m³

Type of value DNEL
 Reference group Workers
 Duration of exposure Short-term
 Mode of action Local effects
 Concentration 960 mg/m³

Type of value DNEL
 Reference group Workers
 Duration of exposure Long-term
 Mode of action Local effects
 Concentration 480 mg/m³

Type of value DNEL
 Reference group Workers
 Duration of exposure Long-term
 Concentration 480 mg/m³

Type of value DNEL
 Reference group Consumers
 Duration of exposure Long-term
 Route of exposure Dermal exposure
 Concentration 3,4 mg/kg/d

Type of value DNEL
 Reference group Consumers
 Duration of exposure Long-term
 Route of exposure Oral exposure
 Concentration 3,4 mg/kg/d

Type of value DNEL
 Reference group Consumers
 Duration of exposure Short-term
 Concentration 859,7 mg/m³

Type of value DNEL
 Reference group Consumers
 Duration of exposure Short-term
 Mode of action Local effects
 Concentration 859,7 mg/m³

Type of value DNEL
 Reference group Consumers
 Duration of exposure Long-term

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Concentration	102,34	mg/m ³
Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Long-term	
Mode of action	Local effects	
Concentration	102,34	mg/m ³

Predicted No Effect Concentration (PNEC)

n-butyl acetate

Type of value	PNEC		
Type	fresh water		
Concentration	0,18	to	mg/l
Type of value	PNEC		
Type	saltwater		
Concentration	0,018	to	mg/l
Type of value	PNEC		
Type	sewage treatment plants (STP)		
Concentration	35,6	to	mg/l
Type of value	PNEC		
Type	Water		
Conditions	intermittent releases		
Concentration	0,36	to	mg/l
Type of value	PNEC		
Type	Fresh water sediment		
Concentration	0,981	to	mg/kg
Type of value	PNEC		
Type	saltwater sediment		
Concentration	0,0981	to	mg/l
Type of value	PNEC		
Type	soil		
Concentration	0,0903	to	mg/kg

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

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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 ³
Temperature	20 °C
Solubility in water	
Remarks	Decomposes in contact with water.
Ignition temperature	
Remarks	no data available
Efflux time	
Value	21 to 49 s
Temperature	20 °C
method	DIN EN ISO 2431 - 4mm

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.

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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 CO₂. Evolution of CO₂ in closed containers causes overpressure and produces a risk of bursting.

10.6. Hazardous decomposition products

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke, hydrogen cyanide (hydrocyanic acid), No decomposition if stored normally.

11. Toxicological information

11.1. Information on toxicological effects

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.

12.2. Persistence and degradability

General information

No data is available on the product itself.

12.3. Bioaccumulative potential

General information

No data is available on the product itself.

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

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EWC waste code solvents or other dangerous substances
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

Disposal recommendations for packaging

EWC waste code 150110 - packaging containing residues of or contaminated by dangerous substances
Empty remaining contents.
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 5I

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

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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	%	468,4	g/l
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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.

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

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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)
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.

