

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

Commercial Product Name: **Treatex Hardener for Lacquer**

Product code: HDR 71

Print Date : 22.10.2009

Revision Date: 07.11.2008

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

Identification of the substance or preparation

Treatex Hardener for Lacquer 1440

Use of the substance/preparation

Surface treatment of wood and other materials

Company/undertaking identification

Treatex Ltd.

Unit I, Howland Road Business Units, Howland Road,  
Thame, Oxfordshire, OX9 3GQ.

Telephone : +44 (0)1844 260416 Fax : +44 (0)1844 358160

E-mail address of person responsible for this SDS

info@treatex.co.uk

Emergency telephone +49 (0) 30 30686790

### 2. Hazards identification

Indication of danger

irritant

Specific hazards to man and the environment

Irritating to eyes.

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 3. Composition/information on ingredients

Hazardous components

- Chemical Name

EC-No.

CAS-No.

Weight %

Labelling

- polyisocyanate, aliphatic

50 - 100 %

Xi

43

- 3-methoxybutyl acetate

224-644-9

4435-53-4

10 - 25 %

Xi

36

- polyethyleneglycol tridecyl ether phosphate

9046-01-9

5 - 10 %

Xi,N

38-41-51/53

- n,n-dimethylcyclohexylamine

202-715-5

98-94-2

1 - 2.5 %

C,N

20/21/22-34-51/53

- hexamethylene-di-isocyanat

212-485-8

822-06-0

< 0.5 %

T

23-36/37/38-42/43

- 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

223-861-6

4098-71-9

< 0.5 %

T,N

23-36/37/38-42/43

51/53

For the full text of the R phrases mentioned in this Section, see Section 16.

### 4. First aid measures

General advice

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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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.  
Take of contaminated clothing and wash before re-use.  
First aider needs to protect himself.  
Move out of dangerous area.

### 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.

### Skin contact

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

### 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.

### Ingestion

Do not induce vomiting.  
Call a physician immediately.

### Notes to physician

#### Treatment

Treat symptomatically.

## 5. Fire-fighting measures

### Suitable extinguishing media

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

### Extinguishing media which must not be used for safety reasons

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

### Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases

Vapours may form explosive mixtures with air.

### Further Information

Standard procedure for chemical fires.

## 6. Accidental release measures

### Personal precautions

Remove all sources of ignition.  
Ensure adequate ventilation.  
Do not breathe vapours or spray mist.  
Refer to protective measures listed in sections 7 and 8.

### Environmental precautions

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

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### Methods for cleaning up

Contain and collect spillage 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 disposal.

## 7. Handling and storage

### 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.

Preparation may charge electrostatically: always use earthing leads when transferring from one container to another.

Take measures to prevent the build up of electrostatic charge.

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 preparation 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.

### Storage

#### Requirements for storage areas and containers

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.

#### Advice on common storage

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

#### Further information on storage conditions

Protect from frost, heat and sunlight.

Keep away from sources of ignition - No smoking.

In accordance with local and national regulations.

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### 8. Expose controls/personal protection

#### Exposure limit values

- Chemical Name	CAS-No.	Type	Concentration
- hexamethylene-di-isocyanat	822-06-0	Long-term	0.02 mg/m <sup>3</sup>
- hexamethylene-di-isocyanat	822-06-0	Short-term	0.07 mg/m <sup>3</sup>
- 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	Long-term	0.02 mg/m <sup>3</sup>
- 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	Short-term	0.07 mg/m <sup>3</sup>

#### Exposure controls

##### Occupational 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

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.

Replace damaged gloves immediately.

**Eye protection**

safety glasses with side-shields conforming to EN166

**Skin and body protection**

Wear suitable protective clothing.

Remove and wash contaminated clothing before re-use.

Wash hands before breaks and at the end of workday.

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### 9. Physical and chemical properties

#### General information

Form	liquid
Colour	colourless
Odour	characteristic

#### Important health, safety and environmental information

##### Change in physical state

##### Boiling range (VOC/H<sub>2</sub>O)

161	until	175	°C
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##### Flash point

56	until	60	°C
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##### Relative density

1.029	until	1.049	kg/l
	at	20	°C

##### Water solubility

immiscible

##### Flow time DIN 4 mm

22	until	28	s
	at	20	°C

##### Volatile organic compounds (VOC) content

42.1	%
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### 10. Stability and reactivity

#### Conditions to avoid

Stable under normal conditions.

To avoid thermal decomposition, do not overheat.

#### Materials to avoid

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Amines and alcohols cause exothermic reactions.

Preparation reacts slowly with water resulting in evolution of CO<sub>2</sub>.

Stable under normal conditions.

Evolution of CO<sub>2</sub> in closed containers causes overpressure and produces a risk of bursting.

#### 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

#### Remarks

No data is available on the product itself.

Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition.

High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects.

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Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. The liquid splashed in the eyes may cause irritation and reversible damage.

Further information

Health injuries are not known or expected under normal use.

### 12. Ecological information

Remarks

No data is available on the product itself.

Should not be released into the environment.

Ecological injuries are not known or expected under normal use.

### 13. Disposal considerations

Product

Where possible recycling is preferred to disposal or incineration.

The product should not be allowed to enter drains, water courses or the soil.

European Waste Catalogue

080111 - waste paint and varnish containing organic solvents or other dangerous substances

200127 - paint, inks, adhesives and resins containing dangerous substances

modified product

European Waste Catalogue

080113 - sludges from paint or varnish containing organic solvents or other dangerous substances

dried residues

European Waste Catalogue

080112 -waste lacquers and waste paint except those falling under 080111

Contaminated packaging

Empty remaining contents.

Empty containers should be taken to local recyclers for disposal.

Germany: KBS system for sheet covering

European Waste Catalogue

150110 - packaging containing residues of or contaminated by dangerous substances

### 14. Transport information

ADR/RID (Land transport)

UN 1263 Class 3 Packaging group III

Description of the goods

PAINT

Further Information

Special Provision 640E

IMDG (Sea transport)

UN 1263 Class 3 Packaging group III

EmS F-E,S-E Marine pollutant NO

Proper technical name

PAINT

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ICAO/IATA (Air transport)

UN 1263 Class 3

Packaging group III

Proper technical name

PAINT

### 15. Regulatory information

Labelling according to EC Directives

The product is classified and labelled in accordance with Directive 1999/45/EC.

Labelling Xi irritant

Hazardous components which must be listed on the label contains polyisocyanate, aliphatic

R-phrase(s)

36 Irritating to eyes.

43 May cause sensitization by skin contact.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

23 Do not breathe spray, vapour.

24 Avoid contact with skin.

25 Avoid contact with eyes.

37 Wear suitable gloves.

Special labelling of certain preparations

Contains isocyanates. See information supplied by the manufacturer.

### 16. Other information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Text of R phrases mentioned in Section 3

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

23 Toxic by inhalation.

34 Causes burns.

36 Irritating to eyes.

36/37/38 Irritating to eyes, respiratory system and skin.

38 Irritating to skin.

41 Risk of serious damage to eyes.

42/43 May cause sensitization by inhalation and skin contact.

43 May cause sensitization by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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.