

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

Trade name: Treatex Hardener for Hardwax Oil 1140

Version: 6 / GB

Date created/revised: 24.06.16

Replaces Version: 5 / GB

Print date: 23.04.15

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 30686700

2. Hazards identification

2.1. Classification of the substance or mixture

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

Classification (Regulation (EC) No. 1272/2008)
Flam. Liq. 3 H226
Skin Sens. 1 H317
STOT SE 3 H336

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

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

Reference to other sections 2.2. Label elements

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

-

Hazard pictograms



Signal word

Warning

Hazard statements

H226 Flammable liquid and vapour.

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H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P309+P315 IF exposed or if you feel unwell: Get immediate medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains polyisocyanate, aliphatic;hexamethylene-di-isocyanat;n-butyl acetate

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH204 Contains isocyanates. May produce an allergic reaction.

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

Hazard symbols



irritant

R phrases

10 Flammable.
43 May cause sensitization 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

contains polyisocyanate, aliphatic

Special labelling for certain preparations

Contains isocyanates. Observe manufacturer's instructions.

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) (if not listed in Section 3).

3. Composition/information on ingredients

Hazardous ingredients (Regulation (EC) No. 1272/2008)

polyisocyanate, aliphatic

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CAS No. 28182-81-2
EINECS no. 500-060-2
Concentration >= 50 %
Classification R43

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

hexamethylene-di-isocyanat

CAS No. 822-06-0
EINECS no. 212-485-8
Registration no. 01-2119457571-37
Concentration >= 0,1 < 0,3 %
Classification Xi, R36/37/38
R42/43
T, R23

Classification (Regulation (EC) No. 1272/2008)
Acute Tox. 4 H302
Acute Tox. 1 H330
Eye Irrit. 2 H319
STOT SE 3 H335
Skin Irrit. 2 H315
Resp. Sens. 1 H334
Skin Sens. 1 H317
Route of exposure: Oral exposure
Route of exposure: Inhalation exposure

Concentration limits (Regulation (EC) No. 1272/2008)
Resp. Sens. 1 H334 >= 0,5 %
Skin Sens. 1 H317 >= 0,5 %

Hazardous ingredients (Directive 1999/45/EEC)**polyisocyanate, aliphatic**

CAS No. 28182-81-2
EINECS no. 500-060-2
Concentration >= 50 %
Classification R43

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

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Skin Sens. 1 H317

hexamethylene-di-isocyanat

CAS No. 822-06-0

EINECS no. 212-485-8

Registration no. 01-2119457571-37

Concentration < 0,5 %

Classification Xi, R36/37/38
R42/43
T, R23

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

Acute Tox. 4 H302

Acute Tox. 1 H330

Route of exposure: Oral exposure

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

Concentration limits (Regulation (EC) No. 1272/2008)

Resp. Sens. 1 H334 $\geq 0,5$ %Skin Sens. 1 H317 $\geq 0,5$ %**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

Nervous system

Further hazardous ingredients

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) (if not listed in Section 3).

4. First aid measures**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

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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, 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

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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. Keep containers tightly closed in a dry, cool and well-ventilated place. Use only with adequate ventilation/personal protection. Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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. Use personal protective equipment. 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. 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 measures to prevent the build up of electrostatic charge. Wear shoes with conductive soles. No sparking tools should be used. 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:	03/2013		

n-butyl acetate

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

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Short term exposure limit 966 mg/m³ 200 ppm(V)
 Status: 03/2013

Derived No/Minimal Effect Levels (DNEL/DMEL)

n-butyl acetate

Type of value DNEL
 Reference group Workers (professional)
 Duration of exposure Long-term
 Route of exposure Dermal exposure
 Mode of action systemic effect
 Concentration 7 mg/kg/d

Type of value DNEL
 Reference group Workers (professional)
 Duration of exposure Short-term
 Route of exposure inhalative
 Mode of action systemic effect
 Concentration 960 mg/m³

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

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

Type of value DNEL
 Reference group Workers (professional)
 Duration of exposure Long-term
 Route of exposure inhalative
 Mode of action systemic effect
 Concentration 480 mg/m³

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

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

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Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	systemic effect	
Concentration	859,7	mg/m ³

Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	859,7	mg/m ³

Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	systemic effect	
Concentration	102,34	mg/m ³

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

Predicted No Effect Concentration (PNEC)**n-butyl acetate**

Type of value	PNEC	
Type	freshwater	
Concentration	0,18	mg/l

Type of value	PNEC	
Type	saltwater	
Concentration	0,018	mg/l

Type of value	PNEC	
Type	sewage treatment plants (STP)	
Concentration	35,6	mg/l

Type of value	PNEC	
Type	Water	
Conditions	sporadic release	
Concentration	0,36	mg/l

Type of value	PNEC	
Type	Fresh water sediment	
Concentration	0,981	mg/kg

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Type of value	PNEC		
Type	saltwater sediment		
Concentration	0,0981	mg/l	
Type of value	PNEC		
Type	ground		
Concentration	0,0903	mg/kg	

8.2. Exposure controls

Exposure controls

Apply technical measures to comply with the workplace 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 WEL, 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
Odour threshold	
Remarks	no data available
pH value	
Remarks	no data available
Melting point	
Remarks	no data available
Freezing point	

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Remarks no data available

Initial boiling point and boiling range

Value 124 to 128 °C

Flash point

Value 23 to 35 °C

Flammability (solid, gas)

no data available

Upper/lower flammability or explosive limits

Remarks no data available

Vapour density

Remarks no data available

Density

Value 1 to 1 g/cm³

Temperature 20 °C

Solubility in water

Remarks no data available

Solubility(ies)

Remarks no data available

Partition coefficient: n-octanol/water

Remarks no data available

Ignition temperature

Remarks no data available

Decomposition temperature

Remarks no data available

Viscosity

Remarks no data available

Efflux time

Value 21 to 49 s

Temperature 20 °C

Method DIN EN ISO 2431 - 4 mm

Explosive properties

evaluation no data available

Oxidising properties

Remarks no data available

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.

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10.4. Conditions to avoid

Heat, flames and sparks.

Decomposition temperature

Remarks no data available

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****Acute oral toxicity (Components)****polyisocyanate, aliphatic**

Species	rat	
LD50	> 2000	mg/kg
Method	Limited Test	

Acute inhalational toxicity

ATE	7,1429	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute inhalative toxicity (Components)**polyisocyanate, aliphatic**

Species	rat	
LC50	> 5	mg/l
Duration of exposure	4	h
Remarks	Mist	

Sensitization (Components)**polyisocyanate, aliphatic**

Species	guinea pig
evaluation	May cause sensitisation by skin contact.
Method	OECD Test Guideline 406

hexamethylene-di-isocyanat

Species	guinea pig
evaluation	May cause sensitisation by skin contact.
Method	OECD Test Guideline 406

hexamethylene-di-isocyanat

Route of exposure	inhalative
Species	guinea pig
evaluation	May cause sensitisation by inhalation.

Mutagenicity (Components)**hexamethylene-di-isocyanat**

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evaluation Not mutagenic in Ames Test.

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)

polyisocyanate, aliphatic

Species	Brachydanio rerio	
LC50	> 100	mg/l
Duration of exposure	96	h

Algae toxicity (Components)

polyisocyanate, aliphatic

EC50	> 100	mg/l
Duration of exposure	72	h
Source	Expert Judgement	

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.

Partition coefficient: n-octanol/water

Remarks no data available

12.4. Mobility in soil

General information

No data is available on the product itself.

Mobility in soil

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

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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

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
Transport category 3
Tunnel restriction code D/E

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

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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

Ingredients (Regulation (EC) No 648/2004)

VOC

VOC (EU) 47,5 % 474,5 g/l

Non-volatile content

Value [%] 52,5

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

CLP categories listed in Chapter 3

Acute Tox. 1 Acute toxicity, Category 1
Acute Tox. 4 Acute toxicity, Category 4
Eye Irrit. 2 Eye irritation, Category 2
Flam. Liq. 3 Flammable liquid, Category 3
Resp. Sens. 1 Respiratory sensitization, Category 1
Skin Irrit. 2 Skin irritation, Category 2
Skin Sens. 1 Skin sensitization, Category 1
STOT SE 3 Specific target organ toxicity - single exposure, Category 3

Abbreviations

ADR - Accord européen sur le transport des marchandises dangereuses par Route (European

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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)
LOAEL - Lowest Observed Adverse Effect Level
LOEL - Lowest Observed Effect Level
NOAEL - No Observed Adverse Effect Level
NOEC - No Observed Effect Concentration
NOEL - No Observed Effect Level
OECD - Organisation for Economic Cooperation and Development
VOC - Volatile Organic Compounds

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.

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