

Trade name: Whittle Waxes Formula Treatex Odourless Hardener 1130

Version: 11 / WORLD  
Replaces Version: 10 / WORLD

Date created/revised: 03.11.16  
Print date: 02.08.16

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

### 1.1. Product identifier

Whittle Waxes Formula Treatex Odourless Hardener 1130

#### Registration no.

Registration no. 01-2119488934-20

### 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

#### Identified Uses

REACHSET 2003

SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
PROC10	Roller application or brushing

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

#### Producer

Whittle Waxes  
P.O. Box 455 Cooroy, QLD 4563  
Telephone no. +61 (0) 1300 3260 929 or 07 5471 7963  
E-mail address info@whittlewaxes.com.au

### 1.4. Emergency telephone number

Australia +61 13 11 26

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

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

Classification (Regulation (EC) No. 1272/2008)	
Acute Tox. 4	H332
Skin Sens. 1	H317
STOT SE 3	H335

### 2.2. Label elements

#### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Warning

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### Hazard statements

H332 Harmful if inhaled.  
H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
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)

#### Supplemental information

EUH204 Contains isocyanates. May produce an allergic reaction.

## 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

### Further hazardous ingredients

For explanation of abbreviations see section 16.

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 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

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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**

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

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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.

#### **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.

### **7.3. Specific end use(s)**

See exposure scenario, if available.

## **8. Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Other information**

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#### **Derived No/Minimal Effect Levels (DNEL/DMEL) hexamethylene diisocyanate, oligomers**

Type of value	DNEL	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1	mg/m <sup>3</sup>
Type of value	DNEL	
Reference group	Workers (professional)	
Duration of exposure	Long-term	

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Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,5	mg/m <sup>3</sup>
<b>Predicted No Effect Concentration (PNEC)</b>		
<b>hexamethylene diisocyanate, oligomers</b>		
Type of value	PNEC	
Type	freshwater	
Concentration	0,199	mg/l
Type of value	PNEC	
Type	saltwater	
Concentration	0,0199	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	44551	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	4455	mg/kg
Type of value	PNEC	
Type	ground	
Concentration	8884	mg/kg
Type of value	PNEC	
Type	sewage treatment plants (STP)	
Concentration	100	mg/l

**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.

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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** odourless

#### Odour threshold

Remarks no data available **pH value**

Remarks no data available

#### Melting point

Remarks no data available

#### Freezing point

Remarks no data available

#### Initial boiling point and boiling range

Remarks Not applicable

#### Flash point

Value > 60 °C

#### Evaporation rate

Remarks no data available

#### Flammability (solid, gas) no

data available

#### Upper/lower flammability or explosive limits

Remarks no data available

#### Vapour density

Remarks no data available

#### Density

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Value	1,14	to	1,2	g/cm <sup>3</sup>
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	32	to	40	s
Temperature	20	°C		
Method	DIN 53211 - 6 mm			

**Explosive properties**

evaluation no data available

**Oxidising properties**

Remarks no data available

**9.2. Other information**

**Other information**

This information is not 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.

**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

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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)**

**hexamethylene diisocyanate, oligomers**

Species	rat		
LD50	>	5000	mg/kg

**Acute dermal toxicity (Components)**

**hexamethylene diisocyanate, oligomers**

Species	rat		
LD50	>	2000	mg/kg

**Acute inhalative toxicity (Components)**

**hexamethylene diisocyanate, oligomers**

ATE	1,5		mg/l
Duration of exposure	4	h	
Administration/Form	Dust/Mist		
Method	conversion value		
Remarks	Mist		

**Sensitization (Components)**

**hexamethylene-di-isocyanat**

Species	guinea pig		
evaluation	May cause sensitisation by skin contact.		
Method	OECD Test Guideline 406		<b>hexamethylene-di-isocyanat</b>

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

**hexamethylene diisocyanate, oligomers**

Species	mouse		
evaluation	May cause sensitisation by skin contact.		

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

**hexamethylene diisocyanate, oligomers**

Route of exposure	inhalative		
	4,3		mg/m <sup>3</sup>
Duration of exposure	3	Weeks	
Method	OECD 412		
evaluation	No Observed Effect Level (NOEL) <b>hexamethylene diisocyanate,</b>		

**oligomers**

Route of exposure	inhalative		
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	14,7		mg/m <sup>3</sup>
Duration of exposure	3	Weeks	
Method	OECD 412 <b>hexamethylene diisocyanate, oligomers</b>		

Route of exposure	inhalative		
	89,8		mg/m <sup>3</sup>
Duration of exposure	3	Weeks	

Method evaluation	OECD 412		
	inflammatory changes in the respiratory tract		

### Mutagenicity (Components)

**hexamethylene-di-isocyanat** 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)

**hexamethylene diisocyanate, oligomers**

Species	Danio rerio (zebra fish)		
LC50	> 100		mg/l
Duration of exposure	96	h	
Method	OECD 203		

#### Daphnia toxicity (Components)

**hexamethylene diisocyanate, oligomers**

Species	Daphnia magna (Water flea)		
EC50	> 100		mg/l
Duration of exposure	48	h	
Method	OECD 202, part 1, static		

#### Algae toxicity (Components)

**hexamethylene diisocyanate, oligomers**

IC50	199		mg/l
Duration of exposure	72	h	
Method	OECD 201		

#### Bacteria toxicity (Components)

**hexamethylene diisocyanate, oligomers**

Species	activated sludge		
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EC50 > 10000 mg/l

## 12.2. Persistence and degradability

### General information

No data is available on the product itself.

### Biodegradability (Components)

hexamethylene diisocyanate, oligomers

Value 2 %

Duration of test 28 d  
evaluation Not readily biodegradable.

## 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

### 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

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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

Not classified as dangerous in the meaning of transport regulations.

#### Marine transport IMDG/GGVSee

Not classified as dangerous in the meaning of sea and air transport regulations.

#### Air transport ICAO/IATA

Not a dangerous substance as defined in the above regulations.

### 15. Regulatory information

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

##### VOC

VOC (EU)	0	%	0	g/l
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##### Non-volatile content

Value [%]	100
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#### 15.2. Chemical safety assessment

For this substance / mixture a chemical safety assessment was not carried out.

### 16. Other information

#### Abbreviations

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)

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

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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.

## **Annex to the extended Safety Data Sheet (eSDS)**

### **Short title of the exposure scenario**

ES004 - Professional uses: roller application or brushing, dipping and pouring and other processing without aerosol formation (inside)

### **Use of the substance/preparation**

Surface treatment of wood and other materials

### **Use**

SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
PROC10	Roller application or brushing
PROC13	Treatment of articles by dipping and pouring
PROCh01	Other processing without aerosol formation

## **Contributing exposure scenario controlling environmental exposure**

### **Use**

ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix

### **Physical form** liquid

### **Maximum amount used per time or activity**

Emission days per site: <= 250

### **Other relevant operational conditions**

Use: Room temperature

Drying and through-curing takes place at ambient temperature or at higher temperatures.

Volatile organic substances will volatilise into the atmospheric air inside.

Where possible recycling is preferred to disposal or incineration.

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

Dispose of rinse water in accordance with local and national regulations. **Waste**

### **water**

Do not flush into surface water or sanitary sewer system.

### **Exhaust air**

Keep container closed. Discharge into the environment must be avoided.

### **Soil**

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Use only in an area equipped with an impervious floor.

#### Disposal recommendations for the product

EWC waste code 080111 - waste paint and varnish containing organic 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  
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.

### Contributing exposure scenario controlling worker exposure (professional)

#### Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

PROCh01 Other processing without aerosol formation

#### Physical form liquid

#### Maximum amount used per time or activity

Duration of exposure <= 8 h/d

Frequency of exposure <= 220 d/a

#### Other relevant operational conditions

Use: Room temperature

Drying and through-curing takes place at ambient temperature or at higher temperatures.

Volatile organic substances will volatilise into the atmospheric air inside. Read attached instructions before use.

#### Product substance and product safety related measures

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.

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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.

**Exposure estimation and reference to its source**

**Workers (professional)**

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	0,21 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,42
Lead substance	hexamethylene diisocyanate, oligomers

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	0,21 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,42
Lead substance	hexamethylene diisocyanate, oligomers

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	0,21 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,42
Lead substance	hexamethylene diisocyanate, oligomers

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## **Information on estimated exposure and downstream-user guidance**

### **Guidance for Downstream Users**

The downstream user can evaluate whether he operates within the conditions set in the exposure scenario on the basis of the information supplied. This evaluation can be conducted by an expert or using the risk assessment tools recommended by ECHA.