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For purchasing information visit:

[Manns Trade Extra Tough Pro Lacquer](#)



# MANN'S TRADE Safety Data Sheet

Manns Trade Extra Tough Pro Catalyst

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

### 1.1. Product Identifier

|      |                                      |
|------|--------------------------------------|
| Name | Manns Trade Extra Tough Pro Catalyst |
|------|--------------------------------------|

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

|             |                                      |
|-------------|--------------------------------------|
| Product Use | Cross-linking agent                  |
| Name        | Manns Trade Extra Tough Pro Catalyst |

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

|                                       |   |
|---------------------------------------|---|
| Company                               | Wood Finishes Direct LTD  |
| Address                               | Unit B, 5 Acre Trade Estate, Park Farm Road, Folkestone, KENT, CT19 5DS |
| Web                                   | www.wood-finishes-direct.com  |
| Telephone                             | +44 (0)1303 213838  |
| Fax                                   | +44 (0)844 815 4992   |
| Email                                 | wood@finishes-direct.com  |
| Email address of the competent person | wood@finishes-direct.com  |

### 1.4. Emergency telephone number

|                            |   |
|----------------------------|---|
| Emergency telephone number | +44 (0)1303 213838  |
| Company                    | Wood Finishes Direct LTD<br>7am - 7pm Mon - Fri, 8am - 5pm Sat, 10am - 4pm Sun. |

## 2. HAZARDS IDENTIFICATION


### 2.1. Classification of the substance or mixture

|                                  |   |
|----------------------------------|---|
| Classification - EC<br>1272/2008 | Physical: Not Classified<br>Health: Acute Tox. 4 - H332; Skin Irrit. 2 - H315; Eye Dam. 1 - H318; Skin Sens. 1 - H317; STOT Single 3 - H335<br>Environmental: Aquatic Chronic 3 |
| Classification - (1999/45)       | Xn; R20. Xi; R36/37. R43. R52/53  |
| Human Health                     | Splashes may cause serious eye damage. The liquid may irritate the skin. May cause allergic skin disorders in sensitive individuals.  |
| Environment                      | The product contains a substance which is harmful to aquatic organism and which may cause long term adverse effects in the aquatic environment                                  |

### 2.2. Label elements

|          |   |
|----------|---|
| Contains | 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate oligomers<br>Hexamethylene diisocyanate oligomers, Isocyanurate |
|----------|---|

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|  |   |
|--|---|
| Label In Accordance With<br>(Ec) No. 1272/2008 |   |
| Hazard Statements                              | <p>H315 - Causes skin irritation.<br/> H317 - May cause an allergic skin reaction.<br/> H318 - Causes serious eye damage.<br/> H332 - Harmful if inhaled.<br/> H335 - May cause respiratory irritation.<br/> H412 - Harmful to aquatic life with long lasting effects.</p>  |
| Supplementary Precautionary Statements         | <p>P261 - Avoid breathing/dust/fume/gas/mist/vapours/spray.<br/> P264 - Wash ... thoroughly after handling.<br/> P271 - Use only outdoors or in a well-ventilated area.<br/> P272 - Contaminated work clothing should not be allowed out of the workplace.<br/> P273 - Avoid release into the environment.<br/> P280 - Wear protective gloves/protective clothing/eye protection/face protection<br/> P302+352 - IF ON SKIN: Wash with plenty of soap and water.<br/> P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br/> P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br/> P310 - Immediately call a POISON CENTER or doctor/physician.<br/> P312 - Call a POISON CENTER or doctor/physician if you feel unwell.<br/> P321 - Specific treatment (see ... on this label).<br/> P332+P313 - If skin irritation occurs: Get medical advice/attention.<br/> P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.<br/> P362 - Take off contaminated clothing and wash before reuse.<br/> P363 - Wash contaminated clothing before reuse.<br/> P403+233 - Store in a well-ventilated place. Keep container tightly closed.<br/> P405 - Store locked up.<br/> P501 - Dispose of contents/containers to...</p> |

## 2.3. Other Hazards

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

|  |  |        |
|--|--|--------|
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate<br>CAS-No.: 4098-71-9  | EC No.: 223-861-6  | < 1%   |
| Classification (EC 1272/2008)<br>Acute Tox. 3 - H331<br>Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319<br>Resp. Sens. 1 - H334<br>Skin Sens. 1 - H317<br>STOT Single 3 - H335<br>Aquatic Chronic 2 - H411 | Classification (67/548)<br>T;R23<br>R42/43<br>Xi;R36/37/38<br>N;R51/53 |        |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate oligomers<br>CAS-No.: 53880-05-0   | EC No.: 931-312-3  | 10-30% |
| Classification (EC 1272/2008)<br>Acute Tox. 4 - H332<br>Skin Sens. 1 - H317<br>STOT Single 3 - H335  | Classification (67/548)<br>Xn;R20.<br>Xi;R37.<br>R43.                  |        |

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|   |  |        |
|---|--|--------|
| Hexamethylene diisocyanate oligomers, Isocyanurate<br>CAS-No.: 28182-81-2 EC No.: 931-274-8   |  | 30-60% |
| Classification (EC 1272/2008)<br>Acute Tox. 4 - H332<br>Skin Sens. 1 - H317<br>STOT Single 3 - H335   | Classification (67/548)<br>Xn;R20.<br>Xi;R37.<br>R43.                  |        |
| HEXAMETHYLENE-DI-ISOCYANATE<br>CAS-No.: 822-06-0 EC No.: 212-485-8  |  | <1%    |
| Classification (EC 1272/2008)<br>Acute Tox. 4 - H302<br>Acute Tox. 2 - H330<br>Skin Corr. 1C - H314<br>Resp. Sens. 1 - H334<br>Skin Sens. 1 - H317<br>STOT Single 3 - H335    | Classification (67/548)<br>T;R23<br>R42/43<br>Xi;R36/37/38             |        |
| N,N-DIMETHYLCYCLOHEXYLAMINE<br>CAS-No.: 98-94-2 EC No.: 202-715-5   |  | 1-5%   |
| Classification (EC 1272/2008)<br>Flam. Liq. 3 - H226<br>Acute Tox. 3 - H301<br>Acute Tox. 3 - H311<br>Acute Tox. 2 - H330<br>Skin Corr. 1B - H314<br>Aquatic Chronic 2 - H411 | Classification (67/548)<br>T;R23/24/25.<br>C;R34.<br>N;R51/53.<br>R10. |        |
| POLYOXYETHYLENE TRIDECYL ETHER PHOSPHATE<br>CAS-No.: 9046-01-9 EC No.: ...  |  | 5-10%  |
| Classification (EC 1272/2008)<br>Skin Irrit. 2 - H315<br>Eye Dam. 1 - H318<br>Aquatic Chronic 2 - H411  | Classification (67/548)<br>Xi;R41,R38.<br>N;R51/53.                    |        |

The Full Text for all R-Phrases are Displayed in Section 16

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

|              |  |
|--------------|--|
| Inhalation   | Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues. Place unconscious person on the side in the recovery position and ensure breathing For breathing difficulties oxygen may be necessary.  |
| Eye contact  | Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.   |
| Skin contact | Remove affected person from source of contamination. Get medical attention promptly if symptoms occur after washing. Remove contaminated clothing immediately and wash skin with soap and water. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. |
| Ingestion    | Get medical attention immediately! Rinse mouth thoroughly. Provide rest, warmth and fresh air. DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.   |

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

|                     |   |
|---------------------|---|
| General Information | The severity of the symptoms described will vary dependant of the concentration and the length of exposure. |
|---------------------|---|

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|              |  |
|--------------|--|
| Inhalation   | Delayed, often serious breathing problems.       |
| Ingestion    | May cause chemical burns in mouth and throat.    |
| Skin Contact | Skin irritation. Allergic rash.                  |
| Eye Contact  | May cause blurred vision and serious eye damage. |

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

## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

|  |  |
|--|--|
|  | Fire can be extinguished using: Dry chemicals, sand, dolomite etc. Foam, carbon dioxide or dry powder. |
|--|--|

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

|                               |   |
|-------------------------------|---|
| Hazardous Combustion Products | When heated, toxic and corrosive vapours/gases may be formed.                       |
| Specific Hazards              | Closed containers can burst violently when heated, due to excess pressure build-up. |

### 5.3. Advice for firefighters

|                                  |  |
|----------------------------------|--|
| Special Fire Fighting Procedures | Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control. |
| Protective Measures In Fire      | Self contained breathing apparatus and full protective clothing must be worn in case of fire.  |

## 6. ACCIDENTAL RELEASE MEASURES

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

|  |  |
|--|--|
|  | Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. |
|--|--|

### 6.2. Environmental precautions

|  |  |
|--|--|
|  | Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. |
|--|--|

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

|  |  |
|--|--|
|  | Wear necessary protective equipment. Flush spilled material into suitable retaining areas or container with large quantities of water. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. |
|--|--|

### 6.4. Reference to other sections

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

|  |   |
|--|---|
|  | Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. |
|--|---|

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

|  |  |
|--|--|
|  | Store in tightly closed original container in a dry, cool and well-ventilated place. |
|--|--|

### 7.3. Specific end use(s)

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## 7.3. Specific end use(s)

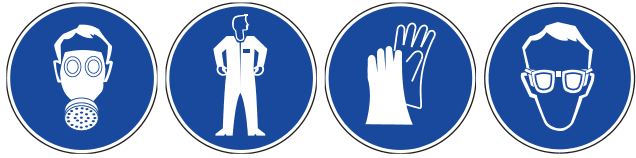
## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

|   | STD | TWA - 8 hrs                  | STEL - 15 min                | Notes |
|---|-----|------------------------------|------------------------------|-------|
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | WEL | 0.02 mg/m <sup>3</sup> (Sen) | 0.07 mg/m <sup>3</sup> (Sen) |       |
| HEXAMETHYLENE-DI-ISOCYANATE                             | WEL | 0.02 mg/m <sup>3</sup> (Sen) | 0.07 mg/m <sup>3</sup> (Sen) |       |

WEL = Workplace Exposure Limit.

### 8.2. Exposure controls

|   |    |
|---|--|
| 8.2.1. Appropriate engineering controls | Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Provide eyewash station.   |
| Eye protection                          | Wear splash-proof eye goggles to prevent any possibility of eye contact.   |
| Skin protection - Hand protection       | Use protective gloves made of: Rubber, neoprene or PVC. For exposure of 4 to 8 hours use gloves made of: Viton rubber (fluor rubber).  |
| Skin protection - Other                 | Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.   |
| Hygiene measures                        | Use appropriate skin cream to prevent drying of skin. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. <b>DO NOT SMOKE IN WORK AREA!</b> |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

|                           |                           |
|---------------------------|---------------------------|
| Appearance                | Liquid                    |
| Colour                    | Colourless to pale yellow |
| Odour                     | Characteristic            |
| Odour threshold           | No data available         |
| pH                        | No data available         |
| Melting point             | No data available         |
| Initial boiling point     | No data available         |
| Flash point               | 76°C                      |
| Evaporation rate          | No data available         |
| Flammability (solid, gas) | No data available         |
| Vapour pressure           | No data available         |
| Vapour density            | No data available         |
| Relative density          | 1.08                      |
| Partition coefficient     | No data available         |
| Autoignition temperature  | No data available         |
| Viscosity                 | No data available         |
| Explosive properties      | No data available         |
| Oxidising properties      | No data available         |
| Solubility                | No data available         |

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## 9.2. Other information

|                                  |                   |
|----------------------------------|-------------------|
| Conductivity                     | No data available |
| Surface tension                  | No data available |
| Gas group                        | No data available |
| Benzene Content                  | No data available |
| Lead content                     | No data available |
| VOC (Volatile organic compounds) | No data available |

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

### 10.5. Incompatible materials

Materials To Avoid Strong oxidising substances. Strong acids.

### 10.6. Hazardous decomposition products

Fire creates: Acrid smoke/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

|                                  |  |
|----------------------------------|--|
| Toxic Dose1 - Ld 50              | 3038 mg/kg (oral rat): Positive.   |
| Germ Cell Mutagenicity (In Vivo) | Chromosome aberration: Positive.   |
| Skin Contact                     | Risk of sensitisation or allergic reactions among sensitive individuals. |
| Eye Contact                      | Risk of serious damage to eyes.  |
| Route of entry                   | Ingestion. Skin and/or eye contact.                                      |
| Target Organs                    | Eyes Skin  |

## 12. ECOLOGICAL INFORMATION

|                    |  |
|--------------------|--|
| <b>Ecotoxicity</b> | There are no data on the ecotoxicity of this product. The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment. |
|--------------------|--|

### 12.1. Toxicity

### 12.2. Persistence and degradability

### 12.3. Bioaccumulative potential

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

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## 13. DISPOSAL CONSIDERATIONS

|                     |  |
|---------------------|--|
| General Information | When handling waste, consideration should be made to the safety precautions applying to handling of the product. |
|---------------------|--|

### 13.1. Waste treatment methods

|                  |  |
|------------------|--|
| Disposal methods | Dispose of waste and residues in accordance with local authority requirements. |
|------------------|--|

## 14. TRANSPORT INFORMATION

|                      |                 |
|----------------------|-----------------|
| Road transport notes | Not classified. |
|----------------------|-----------------|

|                      |                 |
|----------------------|-----------------|
| Road transport notes | Not classified. |
|----------------------|-----------------|

|                      |                 |
|----------------------|-----------------|
| Road transport notes | Not classified. |
|----------------------|-----------------|

|                      |                 |
|----------------------|-----------------|
| Road transport notes | Not classified. |
|----------------------|-----------------|

### Hazard pictograms

#### 14.1. UN number

#### 14.2. UN proper shipping name

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

#### 14.4. Packing group

#### 14.5. Environmental hazards

#### 14.5. Special precautions for user

#### 14.6. Transport in bulk according to Annex II of MARPOL and the IBC Code

## 15. REGULATORY INFORMATION

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

|                          |   |
|--------------------------|---|
| Uk Regulatory References | The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. |
|--------------------------|---|

|                       |                   |
|-----------------------|-------------------|
| Environmental Listing | No listing noted. |
|-----------------------|-------------------|

|                           |   |
|---------------------------|---|
| Approved Code Of Practice | Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations. |
|---------------------------|---|

|                |  |
|----------------|--|
| Guidance Notes | Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. Isocyanates toxic hazards and precautions EH16. |
|----------------|--|

|                |  |
|----------------|--|
| Eu Legislation | Dangerous Preparations Directive 1999/45/EC. Dangerous Substance Directive 67/548/EEC. |
|----------------|--|

### 15.2. Chemical safety assessment

|  |   |
|--|---|
|  | No chemical safety assessment has been carried out. |
|--|---|

## 16. OTHER INFORMATION

|                     |  |
|---------------------|--|
| General Information | Only trained personnel should use this material. |
|---------------------|--|



## Manns Trade Extra Tough Pro Catalyst

|                                  |  |
|----------------------------------|--|
| <b>Risk phrases in full</b>      | <p>R10 Flammable.</p> <p>R20 Harmful by inhalation.</p> <p>R23 Toxic by inhalation.</p> <p>R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.</p> <p>R34 Causes burns.</p> <p>R36/37/38 Irritating to eyes, respiratory system and skin.</p> <p>R37 Irritating to respiratory system.</p> <p>R38 Irritating to skin.</p> <p>R41 Risk of serious damage to eyes.</p> <p>R42/43 May cause sensitisation by inhalation and skin contact.</p> <p>R43 May cause sensitisation by skin contact.</p> <p>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>   |
| <b>Hazard Statements In Full</b> | <p>H226 Flammable liquid and vapour.</p> <p>H301 Toxic if swallowed.</p> <p>H302 Harmful if swallowed.</p> <p>H311 Toxic in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H330 Fatal if inhaled.</p> <p>H331 Toxic if inhaled.</p> <p>H332 Harmful if inhaled.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> |
| Disclaimer                       | <p>This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.</p>  |