

The following Safety Datasheet is provided by **Manns** 

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For purchasing information visit:

Manns Trade Extra Tough Pro Floor Varnish



1. IDENTIFICATION C	of the substance / preparation and the company		
1.1. Product Identifier			
Name	Manns Trade Extra Tough Pro Catalyst		
1.2. Relevant identified use	es 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 Address Web Telephone Fax Email Email address of the competent person  1.4. Emergency telephone Emergency telephone number Company	Wood Finishes Direct LTD Unit B, 5 Acre Trade Estate, Park Farm Road, Folkestone, KENT, CT19 5DS www.wood-finishes-direct.com +44 (0)1303 213838 +44 (0)844 815 4992 wood@finishes.direct wood@finishes.direct  **rumber**  +44 (0)1303 213838 Wood Finishes Direct LTD 7am - 7pm Mon - Fri, 8am - 5pm Sat, 10am - 4pm Sun.		
2. HAZARDS IDENTIF	ICATION		
2.1. Classification of the su	bstance or mixture		
Classification - EC 1272/2008	Physical: Not Classified Health: Acute Tox. 4 - H332;Skin Irrit. 2 - H315;Eye Dam. 1 - H318;Skin Sens. 1 - H317;STOT Single 3 - H335 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.

Hexamethylene diisocyanate oligomers, Isocyanurate

may cause long term adverse effects in the aquatic environment

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate oligomers

The product contains a substance which is harmful to aquatic organism and which

Revision 2 Revision date 23/03/2016

Environment

Contains

2.2. Label elements

Page 1 of 8z Print Date 31/07/2017

Label In Accordance With (Ec) No. 1272/2008



#### Hazard Statements

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H412 Harmful to aquatic life with long lasting effects.

# Supplementary Precautionary Statements

- P261 Avoid breathing/dust/fume/gas/mist/vapours/spray.
- P264 Wash ... thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release into the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes.
- Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 Specific treatment (see ... on this label).
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P363 Wash contaminated clothing before reuse.
- P403+233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/containers to...

#### 2.3. Other Hazards

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate		< 1%
CAS-No.: 4098-71-9	EC No.: 223-861-6	
Classification (EC 1272/2008)	Classification (67/548)	
Acute Tox. 3 - H331	T;R23	
Skin Irrit. 2 - H315	R42/43	
Eye Irrit. 2 - H319	Xi;R36/37/38	
Resp. Sens. 1 - H334	N;R51/53	
Skin Sens. 1 - H317		
STOT Single 3 - H335		
Aquatic Chronic 2 - H411		

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl i	socyanate oligomers	10-30%
CAS-No.: 53880-05-0	EC No.: 931-312-3	
Classification (EC 1272/2008)	Classification (67/548)	
Acute Tox. 4 - H332	Xn;R20.	
Skin Sens. 1 - H317	Xi;R37.	
STOT Single 3 - H335	R43.	

Hexamethylene diisocyanate oligomers, Isocyanurate CAS-No.: 28182-81-2	EC No.: 93	31-274-8	30-60%
Classification (EC 1272/2008) Acute Tox. 4 - H332 Skin Sens. 1 - H317 STOT Single 3 - H335		Classification (67/548) Xn;R20. Xi;R37. R43.	
HEXAMETHYLENE-DI-ISOCYANATE CAS-No.: 822-06-0	EC No.: 2	12-485-8	<1%
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 2 - H330 Skin Corr. 1C - H314 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT Single 3 - H335		Classification (67/548) T;R23 R42/43 Xi;R36/37/38	
N,N-DIMETHYLCYCLOHEXYLAMINE CAS-No.: 98-94-2	EC No.: 20	02-715-5	1-5%
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 2 - H330 Skin Corr. 1B - H314 Aquatic Chronic 2 - H411		Classification (67/548) T;R23/24/25. C;R34. N;R51/53. R10.	
POLYOXYETHYLENE TRIDECYL ETHER PHOSPHATE	5011		5-10%
CAS-No.: 9046-01-9	EC No.:	·	

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

### 4. FIRST AID MEASURES

## 4.1. Description of first aid measures

4.1. Description of first	
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 sy	mptoms 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.

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
Specific Hazards

When heated, toxic and corrosive vapours/gases may be formed.

Closed containers can burst violently when heated, due to excess pressure build-up.

#### 5.3. Advice for firefighters

Special Fire Fighting	J
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

#### 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)

#### 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/m3(Sen)		0.07 mg/m3(Sen)	
HEXAMETHYLENE-DI-ISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(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. DO NOT SMOKE IN WORK AREA!

#### 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
рН	No data available
Melting point	No data available
Initial boiling point	No data available
Flash point	<i>7</i> 6°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

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	No data available
organic compounds)	
10. STABILITY AND I	PEACTIVITY
10.1. Reactivity	CLACIIVIII
10.2. Chemical stability	Chable and a complete sound to the second state of the second stat
10.2 Parallely of large	Stable under normal temperature conditions and recommended use.
10.3. Possibility of hazard	
10.4. Conditions to avoid	
	Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.
10.5. Incompatible mater	ials
Materials To Avoid	Strong oxidising substances. Strong acids.
10.6. Hazardous decomp	oosition products
	Fire creates: Acrid smoke/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).
11. TOXICOLOGICA	LINFORMATION
11.1. Information on toxic	cological effects
Toxic Dose 1 - 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 IN	IFORMATION
Ecotoxicity	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 deg	gradability
12.3. Bioaccumulative po	tential
12.4. Mobility in soil	
12.5. Results of PBT and v	/PvB assessment
12.6. Other adverse effec	cts

13.DISPOSAL CONSI	DEDATIONS			
General Information	When handling waste, consideration should be made to the safety precautions applying to handling of the product.			
13.1. Waste treatment met	hods			
Disposal methods	Dispose of waste and residues in accordance with local authority requirements.			
14. TRANSPORT INFO	DRMATION			
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 cla	ss(es)			
14.4. Packing group				
14.5. Environmental hazar	ds			
14.5. Special precautions f	or user			
14.6. Transport in bulk acc	ording to Annex II of MARPOL and the IBC Code			
15. REGULATORY INF	ORMATION			
15.1. Safety, health and er	vironmental 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 asse	ssment			
	No chemical safety assessment has been carried out.			
16. OTHER INFORMA	ATION			
General Information	Only trained personnel should use this material.			

Risk phrases in full	R10 Flammable. R20 Harmful by inhalation. R23 Toxic by inhalation. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R34 Causes burns. R36/37/38 Irritating to eyes, respiratory system and skin. R37 Irritating to respiratory system. R38 Irritating to skin. R41 Risk of serious damage to eyes. R42/43 May cause sensitisation by inhalation and skin contact. R43 May cause sensitisation by skin contact. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazard Statements In Full	H226 Flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H330 Fatal if inhaled. H331 Toxic if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H411 Toxic to aquatic life with long lasting effects.
Disclaimer	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.