

# Technical Datasheet



## Total Clean™ CFC Free Stencil Cleaner



### Product Name

Total Clean 130 CFC Free Stencil Cleaner

### Manufactured By

Warton Metals Limited  
Grove Mill, Commerce Street  
Haslingden Lancashire  
BB4 5JT  
ENGLAND

Tel: +44 (0)1706 218888  
Fax: +44 (0)1706 221188

### Description

Total Clean 130 is a CFC free cleaning solution developed to replace Trych's and to cut down on the use of CFC's. Total Clean 130 is a stencil cleaner with a moderate evaporation rate for

removal of rosin, modified rosin and no clean solder paste.

### Applications

Total Clean 130 is virtually odourless, easy to use and ozone friendly.

### Packaging

Total Clean 130 is supplied in 500ml trigger bottles and 10 and 25 Litre containers.

### Have You Tried Our Solder Paste?

Warton manufacture a range of no clean and water wash solder pastes available for all printing applications.

#### Future No Clean Solder Paste

The Future range of no clean solder pastes are designed for applications requiring extreme low slump, no solder balling, excellent printability with long tack/stencil life. Future offers rapid, efficient soldering of even the most difficult of assemblies, leaving only minimal clear residue after reflow. Future is formulated for nitrogen and air reflow processes. Future is available with both activated and halide free flux formulations, three powder sizes, four viscosity ranges and in all Warton High Purity Solder Alloys. A dispensing grade version of Future No Clean Solder Paste is also available.

#### Hydro Flux Water Wash Solder Paste

A water wash, colophony free solder paste suitable for applications where washing is necessary. Hydro flux is available in both nitrogen and air reflow formulations.

### Further Information

Please do not hesitate to contact Sales & Technical Enquiries on Tel: 01706 218888 or Fax: 01706 221188 for more information.

# Material Health & Safety Datasheet



Section 1. Identification of the substance / preparation and of the company / undertaking	
Product Name:	Total Clean 130 Stencil Cleaner
Manufactured By:	Warton Metals Limited Grove Mill, Commerce Street. Haslingden. Lancashire. BB4 5JT. ENGLAND.
Emergency Telephone:	01706 218888
Emergency Fax:	01706 221188

Section 2. Composition / Information on Ingredients						
Ingredient	CAS No:	Classification	Symbol	Risk phrases	Safety Phrases	% Present
This is a complex mixture of isoparaffinic/ paraffinic hydrocarbons	90622-57-4	N/A		R65, R66	N/A	50-100
Carriers						<10% Non Hazardous Material
Activators						<2% Non Hazardous Material
Surfactant						<2% Non Hazardous Material

Section 3. Hazards Identification	
Health Hazard	Harmful may cause lung damage if swallowed.
Physical and Chemical Hazards	N/A
Fire & Explosion Hazards	Low Hazard. Material can form flammable mixtures or can burn only on heating to temperatures at or above the flash point.
Environmental Hazards	N/A

Section 4. First Aid Measures	
Inhalation:	Using approved respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.
Skin Contact:	Flush with large amounts of water, use soap if available. Remove grossly contaminated clothing, including shoes and laundry before re-use.
Eye Contact:	Flush eyes with large amounts of water until irritation subsides. If irritation persists get medical attention.
Ingestion:	If swallowed, do not induce vomiting. Keep at rest. Get prompt medical attention.

Section 5. Fire Fighting Measures	
Fire Fighting Procedures	Use water spray to cool surfaces exposed to fire and to protect personnel. Shut off fuel to fire. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect people attempting to stop the leak. Either allow the fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquids spills with foam.
Special Fire Fighting Precautions	Avoid spraying water directly into storage containers due to danger of boilover. Containers may explode if exposed to fire. See also section 4, First Aid Measures and Section 10 Stability and Reactivity.
Hazardous Decomposition Products	Smokes and oxides of carbon.

Section 6. Accidental Release Measures	
Land Spill	Eliminate sources of ignition. Warn occupants in downwind areas of fire and explosion hazard. Prevent liquid from entering sewers, watercourses or low areas. Keep public away. Shut off source if possible to do so without hazard. Advise police if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Take measures to minimise the effect of ground water. Contain spilled liquid with sand or earth. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. If liquid is too viscous for pumping, scrape up with shovels or pails and place in suitable containers for recycle or disposal. Consult an expert on disposal on recovered material and ensure conformity to local disposal regulations. See Section 4 First Aid Measures and 10 Stability and Reactivity.
Water Spill	Eliminates sources of ignition. Warn occupants and shipping in downwind areas of fire and explosion hazard' areas of fire and explosion hazard and request them to stay clear. Notify port or relevant authority and keep public away. Shut off source if possible to do so without hazard. Confine if possible. Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies sinking and or suitable dispersants may be used in non confined waters. Consult an expert on disposal of any recovered material and ensure conformity to local regulations. See section 4 First Aid Measures and 10 Stability and Reactivity.

Section 7. Handling & Storage	
Storage Temperature °C	Ambient
Transport temperature °C	Ambient
Loading/Unloading Temperature C	Ambient
Viscosity (cst)	1.48
Storage/Transport Pressure (Kpa)	Atmospheric
Electrostatic Accumulation Hazards	Yes, use proper grounding procedure

<b>Section 7. Handling &amp; Storage Continued</b>	
Usual Shipping Containers Materials and Coatings suitable Materials and Coatings unsuitable  Storage/Handling, General notes;	Drums, road tanker Carbon steel, Stainless steel., Polyethylene, Polypropylene, Polyester, Teflon. Natural rubber, Butyl rubber, EPDM, Polystyrene. Compatibility with plastic materials can vary, we therefore recommend that compatibility is tested prior to use. Keep container closed. Handle and open containers with care. Store in a cool, well, ventilated place away from incompatible materials. Do not handle or store near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not pressurise, cut heat or weld containers. Empty product containers may cause product residue. Do not re-use empty containers without commercial cleaning or reconditioning. Container remains hazardous when empty. Continue to observe all precautions. For further information on this product see manufacturers datasheet.

<b>Section 8. Exposure Controls &amp; Personal Protection</b>	
<b>Occupational Exposure Limits:-</b> 1200mg/m <sup>3</sup>	
<b>Personal Protection:-</b>	For open systems where contact is likely, wear safety glasses with side shields, long sleeves and chemical resistant gloves. Where contact may occur, wear safety goggles with side shields. Where concentrations in air may exceed the limits given in this section, and engineering, work practise or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.
<b>Work Place Exposure:-</b>	The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, heated above ambient temperatures or otherwise to maintain concentrations below recommended threshold exposure limits.

<b>Section 9. Physical &amp; Chemical Properties.</b>			
Appearance / colour:	clear liquid	Evaporation Rate	0.090
Odour:	Aliphatic Hydrocarbon	Vapour Pressure	0.066 kPa
Density:	>1.00	Auto Ignition Temperature	>200°C
Flash point:	>56 C	Boiling Point/Range	173-193°C
Solubility in water:	<0.10%		


<b>Section 10. Stability &amp; Reactivity</b>	
Hazardous Polymerisation	No
Conditions to avoid polymerisation	N/A
Stability	Stable
Conditions To Avoid Instability	N/A
Materials and Conditions to Avoid	Strong Oxidising Agents
Hazardous decomposition products	Smokes and Oxides of Carbon

<b>Section 11. Toxicological Information</b> ( toxic effects arising from exposure based on experimental and non experimental data)	
Acute Inhalation	Vapour concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects.
Skin	Low order of toxicity. Frequent or prolonged contact may irritate and cause dermatitis
Eye contact:	Irritating, but does not injure eye tissue.
Ingestion	Small amounts of liquid aspirated into respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema Minimal Toxicity. Additional information is available on request.

<b>Section 12. Ecological Information</b>	
(Possible environmental effects and behaviour /ODP/aquatic toxicity):	This substance is highly volatile and will rapidly evaporate into the air if releases in the environment.
Ecotoxicity	Based upon data for a similar substance or estimated data. This substance is expected to biodegrade slowly. This substance can degrade rapidly in air. This substance is expected to be removed in a wastewater treatment facility. Based upon data for a similar substance or estimated data. No acute toxicity to aquatic organism is expected at the maximum water solubility of this material. Long term adverse effects to aquatic organisms are not expected.

<b>Section 13. Disposal Considerations</b>	
(Safe disposal of product, its residues and packaging materials):	The following advice only applies to the product as supplied. Combination with other materials may well indicate another route of disposal. Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should in any case be taken to ensure compliance with EC, national and local regulations. This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be burned directly in appropriate equipment.

<b>Section 14. Transport Information</b>	
<b>Land</b>	
ADR/RID Class Item	3,31c
Danger Number	30
Danger Label	3
Empty Containers	3,71
Transport Document name	3295 Hydrocarbons Liquid
Tremcard Product Name	Hydrocarbons, liquid nos isododecanes and isoundecanes.
<b>Inland Waterways</b>	ADN/R Clas Item 3, 31c:94
<b>Sea</b>	
Un Number	3295
Imo Class	3.3
EMS Number	3-07
Marine Pollutant	No
Risk Label	3
Proper Shipping name	Hydrocarbons, liquid nos Contains Ispoundecanes and Isododecanes
<b>AIR</b>	
ICAO/ IATA Class	3
Passenger packing Instructions	309/Y309
Passenger Maximum Quantity Pack	60L/10L
Cargo Packing Instruction	
Cargo maximum Quantity/Pack	310 220L

<b>Section 15. Regulatory Information</b>	
Classification symbol	Classifications and labelling according to EEC Directives
Governing/ Directive	Harmful /Xn
Nature Of Special Risk	Dangerous Preparations Directive 88/379/EEC
	R65 Harmful may cause lung damage if swallowed.
	R66 Repeated Exposure may cause skin dryness and cracking
	S23 Do not breath gas, fumes, vapour, spray
	S24 Avoid contact with skin
	S62 If swallowed, do not induce vomiting; Seek medical advice immediately and show this container or label.
	 HARMFUL

<b>Section 16. Other Information</b>	
Recommended uses and restrictions:	It is the responsibility to ensure safe working within the workplace remains with the user. The health hazard and general information contained within this material safety datasheet are given as a guide to the precautions required to maintain a safe working environment.
Publications references:	

<b>Section 17. Revision Dates</b>	
Revised Date / Initials:	November 2002/ VHM
Replacing:	All previous health and safety datasheets
Legend:	N/A = Not applicable or available at time of printing. N/D = Not determined or not determinable. Est. = Estimated

The information and recommendations on this sheet relate to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information is given in good faith and the best of Warton Metals Ltd knowledge, information and believed accurate and reliable at the time of preparation. Nothing herein is to be construed as a guarantee, express or implied in all cases it is the responsibility of the user to determine the applicability of this information or the suitability of the products for his own particular purposes.