



MATERIAL APPLICATION & SAFETY DATASHEET

Total CleanTM

CFC Free Cleaning Solution



Product Name

Total Clean 200 CFC Free Cleaning Solution in aerosol

Manufactured By

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

Tel: 01706 218888
Fax: 01706 221188

Description

Total Clean 200 is a CFC free cleaning solution developed for bench-top removal of flux residues, after the soldering process.

Total Clean 200 is a solvent based cleaner and offers greater cleaning power than similar Isopropanal cleaners, which can leave conductive and corrosive white organic powders after evaporation. Total Clean 200 will dissolve most

flux ingredients quickly and efficiently, leaving assemblies cleaner than normal cleaning agents.

Total Clean 200 is easy to use, fast evaporating and ozone friendly.

Total Clean 200 leaves no residue, making it ideal for all those applications where a lubricant is unsuitable.

Total Clean 200 is safe on most plastics, fabrics and surface coatings although you should always test for material compatibility before using cleaners on a commercial scale.

Application

1. Fix applicator to the front of the spray nozzle.
2. Spray area required to be cleaned.
3. If required use a soft bristle brush to help penetrate difficult hardened or aged residues.
4. Rinse with fresh cleaning agent.
5. Repeat procedure until no residues are present.

Typical Uses

For the removal of Rosin No Clean, Rosin Free No Clean and Resin based flux residues after soldering.

Packaging

Supplied in 400ml Aerosols.

Health & Safety

Always read the Health & Safety. Please see over for Health & Safety Material information.

Further Information

If you require further information on the above product, please do not hesitate to contact Sales & Technical Enquiries on Tel: 01706 218888 or Fax: 01706 221188.



Material Safety Datasheet

Total Clean 200 CFC Free Cleaning Solution (in Aerosol Container)

Section 1. Identification of the substance / preparation and of the company / undertaking	
Product Name:	Total Clean 200 CFC Free Cleaning Solution in Aerosol Container
Manufactured By:	Warton Metals Limited Grove Mill, Commerce Street. Haslingden. Lancashire. BB4 5JT. ENGLAND.
Emergency Telephone:	+ 44 (0)1706 218888
Emergency Fax:	+44 (0)1706 221188

Section 2. Composition / Information on Ingredients				
ISOPROPANOL MIX	Weight %	Risk Phrase	OEL (Stel)	OEL (LT)
	25-50	-	500 ppm	400ppm
	25-50	-	1250ppm	1000ppm

Section 3. Hazards Identification	
	Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn even after use. Do not spray on a naked flame or any incandescent material. Ensure adequate ventilation when in use. Keep out of reach of children.

Section 4. First Aid Measures	
Inhalation:	Vapours area anaesthetic in high concentrations. Remove to fresh air. If unwell, seek medical attention.
Skin Contact:	Degreasing-prolonged contact may cause irritation and dermatitis. Wash well with soap and water.
Eye Contact:	Causes irritation and redness. Irrigate immediately with plenty of water. If irritation persists seek medical attention.
Ingestion:	May cause irritation, vomiting and diarrhoea. Do not induce vomiting. Seek medical attention immediately.

Section 5. Fire Fighting Measures	
Suitable extinguishing media:	Foam, dry powder, CO2
Protective measures:	Protect against exploding aerosol cans. Wear suitable respiratory equipment. If the aerosol can is ruptured, flammable vapours will be emitted.

Section 6. Accidental Release Measures	
	This product is a sealed aerosol container under pressure. Should a package be ruptured, allow contents discharge in situ, whilst moving all ignition sources from the area and ensuring maximum ventilation. Use absorbent material to mop up residue and do not allow into drains. See 13 Disposal considerations.

Section 7. Handling & Storage	
	Aerosol products should be stored together in their own location and in a cool, dry place away from heat and ignition sources.

Section 8. Exposure Controls & Personal Protection	
Respiratory	Do not breathe vapour. Ensure adequate ventilation.
Hands	Plastic surgical-type gloves recommended.
Eyes	Protective eyewear recommended for use with any industrial aerosol product.

Section 9. Physical & Chemical Properties.			
Physical State: Form/Colour:	Clear	Explosive Limits (in air):	-
Odour:	Alcohol odour	Vapour Density (1013	-
pH (°C):	-	Kpa/air+1):	-
Freeze / Melt Point:	-	Solubility In Water (20°C):	-
Flashpoint (TCC):	<19°C	Evaporation Rate (n-Bu	-
Auto-ignition Temperature:	-	Acetate=1):	-

Section 10. Stability & Reactivity	
	Aerosol products should preferably be stored between 5°C and a maximum of 30°C. See 3 Hazards Identification

Section 11. Toxicological Information (toxic effects arising from exposure based on experimental and non experimental data)	
	Contact with eyes should be limited to mild conjunctivitis provided adequate irrigation is carried out immediately. prolonged or repeated contact with skin may cause dermatitis and irritation. Vapours in high concentrations may cause dizziness and headaches, are anaesthetic and may give other central nervous system effects.

Section 12. Ecological Information			
	Aerosol products, by their very nature, are contained in hermetically sealed units, rarely greater than 500ml in size and their discharge controlled by a valve. When exhausted, recycling or incineration is recommended which will conclude the life cycle in an acceptable manner.		
Section 13. Disposal Considerations			
	Recycle empty containers if facilities are available, if not incineration is recommended. Failing this, use landfill. Be sure to comply with local authority regulation.		
Section 14. Transport Information			
UN Number	1950	ADR Road	Class 2.1
ICAO AIR	Class 2.1	Proper Shipping Name	Aerosols, flammable NOS
IMO Class Sea	Class 2	Packing Group	11
Section 15. Regulatory Information			
<u>Labelling Information</u>	Extremely Flammable R12 Extremely Flammable S21 When Using do not smoke S23 Do not breathe vapour or spray S51 Use only in well ventilated areas		
Section 16. Other Information			
	HSE EH40 Occupational exposure limits. British Aerosol Manufacturer Associated Code of Practice. HSC- Safety Data Sheets for substances and preparations dangerous for supply.		
Section 17. Revision Dates			
Revised Date / Initials/Replacing: Legend:	07/071 / VHM . All previous health and safety datasheets 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 to the best of Warton Metals Ltd knowledge, 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 /suitability of this information or products for the purpose.			