

# Safety Data Sheet

According to 1907/2006/EC, Article 31 REACH

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product Identifier

Product Name	Total Clean 200 Cleaner 400ml aerosol
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### 1.2. Relevant Identified uses of the substance or mixture and uses advised against

Description	Flux residue remover
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### 1.3. Details of the supplier of the safety data sheet

Company Address	Allendale Electronics Limited PCB Soldering Dept. Pindar Road Hoddesdon Hertfordshire EN11 0BZ England
Web	<a href="http://www.pcb-soldering.co.uk">www.pcb-soldering.co.uk</a>
Telephone	01992 455924
Fax	01992 450781
Email	<a href="mailto:sales@pcb-soldering.co.uk">sales@pcb-soldering.co.uk</a>

### 1.4. Emergency telephone number



Emergency Telephone Number	+44(0)1706 218888 (8am-5pm Monday-Friday)
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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

Classification- EU Directive 67/548/EEC 1999/45/EC Main Hazards	R36: Irritating to eyes R67: Vapours may cause drowsiness and dizziness R12: Extremely Flammable Vapours may cause drowsiness and dizziness
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### 2.2. Label Elements EU Directive 67/548/EEC 1999/45/EC

Symbols	F+:Extremely Flammable Xi: Irritant  
Risk Phrases	R12 - Extremely Flammable R36: Irritating to eyes
Safety Phrases	R67 - Vapours may cause drowsiness and dizziness S2 - Keep out of reach of children S16 - Keep away from sources of ignition-No smoking S23 - Do not breathe vapours and spray S25 - Avoid contact with eyes S26 - in case of contact with eyes , rinse immediately with plenty of water and seek medical advice
Extra Label Requirements according to Aerosol Dispenser Directive 75/324/EC:	S51 - Only use in well ventilated areas 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.

## SECTION 3: Composition/Information on ingredients

### 3.2. This material is defined as a mixture

67/548/EEC/1999/45/EC

Chemical Name	CAS No	EC No.	REACH Registration Number	Conc. (%w/w)	DSD Classification	CLP
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Tot al Clean 200 Aerosol Cleaner 400ml

Isopropanol (Propan-2-ol) mix	67-63 -0	200-661-7	01-2119457558-25	<50	F+, R12	Eye irrit.2 H319 Flam. Liq.2 H225 STOT SE 3 H336
Hydrocarbons C3-4 rich, petroleum distillate petroleungas (1,3 butadiene <0.1%)	68512-91-4	270-990-9	Not available	30-60	F,Xi R11, R36, R67	-

#### SECTION 4: First Aid Measures

##### 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If not breathing give artificial respiration. Loosen clothing.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelid open.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing.
Ingestion	Ingestion is unlikely to occur. If swallowed accidentally rinse mouth thoroughly. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

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

Inhalation	Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness.
Eye Contact	Irritating to eyes: symptoms redness and pain.
Skin Contact	May cause irritation: redness and pain
Ingestion	May cause gastrointestinal disturbances.

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

	If you feel unwell, seek medical attention. If symptoms persist always call a doctor.
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#### SECTION 5: Firefighting Measures

##### 5.1. Extinguishing Media

	Use foam, carbon dioxide or a dry agent.
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##### 5.2. Special hazards arising from the substance or mixture

	Aerosol may explode if heated above 50°C. Forms hazardous decomposition products CO, CO2.
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##### 5.3 Advice for Fire Fighters

	Keep containers exposed to fire cool, by spraying with water. In case of fire do not breathe fumes.
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#### SECTION 6: Accidental Release Measures

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

	Use personal protective equipment. Avoid breathing vapours and mist. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. This product is in a sealed container under pressure. Should a package be ruptured, allow contents to discharge, whilst moving all ignition sources and ensuring maximum ventilation.
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##### 6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe. If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities.
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##### 6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. Do not let product enter drains.
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##### 6.4. reference to other sections

	See section 2,8,13 for further information
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#### SECTION 7: Handling and Storage

##### 7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best manual handling considerations when handling, carrying and using. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Keep out of reach of children.
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##### 7.2. Precautions for safe storage, including and incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Keep away from sources of ignition-no smoking.
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##### 7.3. Specific end use(s)

	To be used as a flux residue remover
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**SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## 8.1.1. Exposure Limit Values

Isopropanol (Propan-2-ol)	STEL 500ppm 1,250mg/m <sup>3</sup> UK EH40 WEL-Workplace Exposure limits TWA 400ppm 999mg/m <sup>3</sup> UK EH40 WEL-Workplace Exposure limits
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## 8.2. Exposure Controls

8.2.1 Appropriate engineering controls	Ensure adequate ventilation of the working area. Keep away from sources of ignition. Take precautionary measures against static discharges.
8.2.2. Individual protection measures	Wear protective clothing. Handle in accordance with good industrial hygiene practice. Wash hands before breaks and at the end of day.
Eye/face protection	In case of splashing wear approved safety goggles.
Skin / Hand protection	Chemical resistant gloves (nitrile)

**SECTION 9: Information on basic physical and chemical properties**

State	Liquid under pressure
Colour	Clear
Odour	Alcoholic
pH	No data available
Melting point	-89.5°C
Freezing point	No data available
Boiling point	82°C
Flash point	12°C
Evaporation rate	Not available
Flammability limits	No data available
Vapour flammability	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.79g/cm <sup>3</sup> at 20°C
Fat solubility	No data available
Partition coefficient	0.05
Autoignition temperature	460°C
Viscosity	No data available
Solubility	Soluble in water
Decomposition Temperature	No data available

## 9.2. Other Information

Conductivity	No data available
Surface Tension	20.8mN/m at 25°C
Gas group	No data available

**SECTION 10: Stability and Reactivity**

## 10.1. Reactivity

	No hazardous reactions known if used for its intended purpose
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## 10.2. Stability

	Stable under normal conditions
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## 10.3. Possibility of Hazardous Reactions

	No data available
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## 10.4. Conditions to avoid

	Heat, flames and sparks. Extreme temperatures and direct sunlight.
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## 10.5. Incompatible Materials

	Strong oxidizing agents.
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## 10.6. Hazardous Decomposition Products

	CO, CO <sub>2</sub>
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**SECTION 11: Toxicological Information**

## 11.1. Information on toxicological effects

Isopropanol (Propan-2-ol)	Oral rat LC <sub>50</sub> >2000mg/kg Inhal. Rat >20mg/l LD <sub>50</sub> derm rabbit >2000mg/kg
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**SECTION 12: Ecological Information**

## 12.1 Toxicity

Toxicity to fish Toxicity to daphnia and other	Not classified
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aquatic invertebrates Toxicity to algae	
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## 12.2. Persistence and degradability

	No data available
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## 12.3. Bioaccumulative potential

	No data available
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## 12.4. Mobility in soil

	Soluble in Water
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## 12.5. Results of PBT and vPvB assessment

	No data available
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## 12.6 Other adverse effects

	No data available
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# SECTION 13: Disposal Considerations

## General Information

	Dispose of in compliance with all local and national regulations.
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## Disposal methods

	This material and its container must be disposed of in a safe way. Do not discharge into drains or the environment, dispose to an authorised waste collection point.
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## Disposal and Packaging

	Do NOT reuse empty containers. Empty containers can be sent for disposal and recycling.
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## Further Information

	For disposal with the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
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# SECTION 14: Transport Information

## Hazard Pictograms

	
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## 14.1. UN Number

	UN1950
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## 14.2. UN Proper Shipping Name

	AEROSOLS, flammable
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## 14.3. Transport Hazard Class

ADR/RID	5F
IMDG	2
IATA	2.1

## 14.4. Packing Group

Packing Group	II
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## 14.5. Environmental Hazards

Environmental hazard	No
Marine Pollutant	No

## ADR/RID

Hazard ID	
Tunnel Category	(D)

## IMDG

Ems Code	F-D, S-U
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## IATA

Packing Instruction (Cargo)	203
Maximum quantity	Max 150 kilos
Packing Instruction (Passenger)	203
Maximum quantity	75 kilos

# SECTION 15: Regulatory Information

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

15.2 Chemical Safety Assessment – A chemical safety assessment has not been carried out for the mixture.

Regulations

The Safety Data Sheet is compiled according to the current European requirements. Directive 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC, EU Directive 99/45/EC Regulation (EC) 1907/2006 (REACH)

**SECTION 16: Other Information**

Other Information

R11- Highly Flammable  
R12- Extremely Flammable  
R36 – Irritating to eyes  
R67 – Vapours may cause drowsiness and dizziness  
H225 – Highly Flammable Liquid and vapour  
H319- Causes serious eye irritation  
H336: May cause drowsiness and dizziness

Further Information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.