Safety Data Sheet

According to 1907/2006/EC. Article 31 REACH

Allendale Electronics Limited

Pindar Road, Hoddesdon Hertfordshire EN11 0BZ UK Tel: +44 (0) 1992 455924 Fax: +44 (0) 1992 450781 Web: www.pcb-soldering.co.uk





Previous Issue 07/2012 Revision 4.0 Revision Date 10/2012

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

1.1. Product Identifier

Product Name	Future 315 Low Residue No Clean Flux	
1.2. Pelevant Identified uses of the substance or mixture and uses advised against		

Description No Clean Flux/Rework Flux.

1.3. Details of the supplier of the safety data sheet

Company	Allendale Electronics Ltd.
Address	PCB Soldering Dept.

Pindar Road Hoddesdon Hertfordshire EN11 0BZ England

Web <u>www.pcb-soldering.co.uk</u>

Telephone 01992 455924 Fax 01992 450781

Email <u>sales@pcb-soldering.co.uk</u>

1.4. Emergency telephone number

Emergency Te	lephor	ne Number	+44(0)1992 455924 (8am-5pm Monday-Friday)

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification- EU Directive	F; R11 Xi ;R36 R67
67/548/EEC 1999/45/EC	Symbols: F: Highly Flammable. Xi: Irritant
Main Hazards	Highly Flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness

Classification- EC 1272/2008	Flammable Liquid Category 2
Main Hazards	Eye irritation:Category 2.
	Target organ toxicant (central pervous system): Category 3

2.2. Label Elements EU Directive 67/548/EEC 1999/45/EC

2.2. Laber Liements Lo Directive 67/340/LLC 1999/43/LC		
Symbols	F: Highly Flammable. Xi: Irritant	
Risk Phrases	R11 - Highly Flammable	
	R36/37/38 - Irritating to eyes, Respiratory system and skin	
	R41 –Risk of serious damage to eyes	
	R67 - Vapours may cause drowsiness and dizziness	
Safety Phrases	S16 – Keep away from sources of ignition-No smoking	

Label Elements EC 1272/2008 (CLP/GHS)

GHS Symbols	
Hazard Statements	Signal Word: Danger H225: Highly Flammable liquid and vapour
	H315: Causes Skin irritation
	H319: Causes serious eye irritation
December on Chatemants	H336 May cause drowsiness or dizziness
Precautionary Statements	P210: Keep away from heat/sparks/open flames/hot surfaces-No smoking.
	P261: Avoid breathing mist/vapours
	P280: Wear protective gloves and eye protection.

	P301 + P310: If swallowed, immediately call a doctor. P305+P351+P338: If in EYES, rinse cautiously with water for several minutes. Remove contact lenses. P403+P235: Store in a well-ventilated place. Keep cool. Contains propan-2-ol
--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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	Conc.(%w/w)	DSD Classification	CLP
			Number			
Isopropanol (Propan-2-ol)	67-63 -0	200-661-7	01-2119457558-25	90-100 %	F;R11 Xi;R36	Eye irrit.2 H319
					R67	Flam. Liq.2 H225
				1-10%		STOT SE 3 H336
Carboxylic Acid C4-C6	68603-87-2	271-678-5	Not available	1-10%	R37/38, R41	

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.
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	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

Central nervous system depression, prolonged or repeated exposure can cause: nausea, headache, vomiting, narcosis, drowsiness. Over-exposure may cause mild, reversible liver effects.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting Measures

5.1. Extinguishing Media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for Fire Fighters

Wear self contained breathing apparatus for fire fighting if necessary. Use water spray to cool unopened containers.

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.

6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Asborb 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.

6.4. reference to other sections

See section 2,8,13 for further information

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.

7.2. Precautions for safe storage, including and incompatabilities

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.

7.3. Specific end use(s)

To be used as a soldering flux

8.1. Control parameters 8.1.1. Exposure Limit Values Isopropanol (Propan-2-ol) 8.2. Exposure Controls 8.2.1 Appropriate engineering controls 8.2.2. Individual protection STEL 500ppm 1,250mg/m³ UK EH40 WEL-Workplace Exposure limits TWA 400ppm 999mg/m³ UK EH40 WEL-Workplace Exposure limits Ensure adequate ventilation of the working area. Wear protective clothing. Handle in accordance with good industrial hygiene

practice. Wash hands before breaks and at the end of day.

In case of splashing wear approved safety goggles.

Chemical resistant gloves (PVC)

SECTION 9: Information on basic physical and chemical properties

State	Liquid
Colour	Clear
Odour	Alcoholic
pH	No data available
Melting point	-89.5°C
Freezing point	No data available
Boiling point	No data available
Flash point	<19°C
Evaporation rate	3.0
Flammability limits	No data available
Vapour flammability	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.800g/cm³ at 25°C
Fat solubility	No data available
Partition coefficient	0.05
Autoignition temperature	425°C
Viscosity	No data available
Solubility	Soluble in water
Decomposition Temperature	No data available
9.2. Other Information	
Conductivity	No data available

9.2. Other Information				
		Con	ductivity	No data available
		Surface	Tension	20.8mN/m at 25°C
		G	as group	No data available

SECTION 10: Stability and Reactivity

10.1. Reactivity	·
	No data available on this product
10.2. Stability	
	Stable under normal conditions
40.0 Danaileilite af Hamandaria Dan	

10.3. Possibility of Hazardous Reactions

No data available

10.4. Conditions to avoid

measures

Eye/face protection

Skin / Hand protection

Heat, flames and sparks. Extreme temperatures and direct sunlight.

10.5.Incompatible Materials

Strong oxidizing agents.

10.6 Hazardous Decomposition Products

No data available

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

11.1. Information on textoclogical effects	
Acute toxicity	LD50 Oral-rat-5,045mg/kg (behavioural, altered sleep/general depressed activity)
	LC50 – Inhalation –rat- 8hr -16000ppm
	LD50 – Dermal –rabbit 12,800 mg/kg
Skin Corrosion	Skin-rabbit-Mild skin irritation
Serious eye damage/eye irritation	Eyes –rabbit-eye irritation- 24 hour
Respiratory or skin irritation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC- Group 3, Not classifiable as to its carcinogenicity to humans (2-propanol)
Reproductive toxicity	No data available
Specific target organ toxicity-	May cause drowsiness and dizziness

Repeated exposure Specific target organ toxicity No data available Aspiration hazard No data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Vapours may cause drowsiness and dizziness. May be harmful if swallowed Ingestion Skin May be harmful if absorbed through skin. Eyes Causes serious eye irritation. Signs and Symptoms of Exposure Central nervous system depression, prolonged and repeated exposure can cause, nausea, headache, vomiting, narcosis, drowsiness, over-exposure may cause mild,

	reversible liver effects.
SECTION 12: Ecological Information	on
12.1 Toxicity	
Toxicity to fish	LC50-Pimephales promelas (fathead minnow) -9,640.00mg/l-96h
Toxicity to daphnia and other	EC50 – Daphnia magna (water flea)- 5,102.00mg/l-24h
aquatic inverterbrates	
Toxicity to algae	EC50-Desmodesmus subspicatus (green algae)->2,000.00mg/l-72h
	EC50 – Algae->1,000.00mg/l-24h
12.2. Persistence and degradability	
12121 Forestories and degradability	No data available
12.3. Bioaccumulative potential	
	No data available
12.4. Mobility in soil	
	No data available
12.5.Results of PBT and vPvB asse	
	No data available
12.6 Other adverse effects	
	No data available
SECTION 13: Disposal Considerati	ions
General Information	
	Dispose of in compliance with all local and national regulations.
Disposal methods	
	Contact a licensed waste disposal company
Disposal and Packaging	
	Do NOT reuse empty containers. Empty containers can be sent for disposal and recycling.
Further Information	
	For disposal with the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

Hazard Pictograms Hazard Number

	UN1219
14.2. UN Proper Shipping Name	
	ISOPROPANOL
14.3. Transport Hazard Class	
ADR/RID	3
Subsidiary risk	-
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-

14.4. Packing Group

Packing Group	

14.5. Environmental Hazards

Environmental hazard	No
Marine Pollutant	No

ADR/RID

7,6141415	
Hazard ID	33
Tunnel Category	D/E

IMDG

IIVIDO	
Ems Code	F-E-S-D

ΙΔΤΔ

INIA	
Packing Instruction (Cargo)	364
Maximum quantity	60L
Packing Instruction (Passenger)	353
Maximum quantity	5L

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

Commission regulation (EU) No 453/2010 of the 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Regulation, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94. Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1907/2006 of the European Parliament and of the council of 18 December 2006 concerning the Regulation, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Directive (EEC) No 793/93 and Commission Regulation (EC) No 1488/94. Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC. (93/105/EC) and 2000/21/EC.

SECTION 16: Other Inform	nation
Other Information	
	None
Further Information	The information complied in this Cofety Date Chapt is decised as because and as a
T di tiloi imolination	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

other materials or in any other process.

designated and may not be valid for such material used in combination with any