Technical Datasheet

WARTON METALS LIMITED

MATERIAL APPLICATION & SAFETY DATASHE ET

Future
HF Rework Jelly

Product Name
Future HF Rework Jelly

Manufactured By
Warton Metals Limited
Grove Mill Commerce Street
Haslingden Lancashire BB4 5JT UK
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Introduction

- Halide Free
- Exceeds the requirements of J-STD-004 ROL0
- Clear residue
- Can be used as supplied, or with needle/ tips for easy application.

An approved No Clean in accordance with Bellcore GR78Core and IPC J-STD 004 (Type ROL0). Future HF Rework Jelly can be used with dedicated Re-work stations or independently with the use of Soldering Irons such as Weller® and Metcal®.

Future HF Re-work Jelly provides sufficient tack, heat stability and activation for all component conditions.

Future HF Re-work Jelly can be used by applying once for both component removal and addition, leaving the minimum of transparent residue after use.

Specification
ANSI J-STD-004

Surface Insulation Resistance	Pass
Copper Mirror Corrosion	Pass
10 Day Corrosion	Pass
Silver Chromate test	Pass

Specification
Bellcore GR78 Core

Surface Insulation Resistance	Pass
Electromigration Resistance	Pass
Copper Mirror Corrosion	Pass
10 Day Corrosion	Pass
Silver Chromate test	Pass

Tips/Needles

E/ST Series - Tips

The E and ST range of needles are made from rigid stainless steel with a blunt end and plastic hub. Tips/needles can be used with Future HF Rework Jelly.

Tips Available

Part No.	Gauge	I.D. (Inches)	I.D. (mm)	Colour
E14-1/2	14	0.063	1.60	Dk Green
E15-1/2	15	0.054	1.37	Orange
ST18-1/2*	18	0.033	0.84	Pink
ST19-1/2*	19	0.027	0.69	Brown
ST20-1/2*	20	0.023	0.58	Yellow
ST21-1/2*	21	0.020	0.51	Green
ST22-1/2*	22	0.016	0.41	Black
ST23-1/2*	23	0.013	0.33	Lt. Blue
ST25-1/2*	25	0.010	0.25	Dk. Blue
ST26-1/2*	26	0.009	0.23	Beige
ST27-5/16*	27	0.008	0.20	Grey
ST30-5/16*	30	0.006	0.15	Lavender

TT Taper Tip are also available and are produced from moulded polyethylene and are typically used for higher viscosity materials such as greases or RTV silicones.

Packaging
Future HF Rework Jelly is supplied in a 10cc Semco automatic syringe or syringe with manual plunger and needle.

Material Health & Safety Datasheet

WARTON METALS LIMITED

Section 1. Identification of the substance / preparation and of the company / undertaking	
Product Name:	Future HF Rework Jelly
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				
Ingredient	CAS No:	Classification Symbol	Risk phrases	Safety Phrases	% Present
Modified rosins:	*	-	42/43	40-50
*CAS No: is variable and depends on the exact identity of the modified rosin used. The classification symbol and risk phrases are only a requirement for rosin (colophony CAS No: 8050-09-7) but are used by Warton for all modified rosins in the absence of data indicating that they are not sensitises.				

Section 3. Hazards Identification	
Rosin or Modified Rosin	This product contains rosin or modified rosin, prolonged or repeated skin contact can cause an allergic reaction to develop. Inhalation of the fumes will irritate the respiratory system. Prolonged or repeated exposure to the fumes emitted during reflow may cause sensitisation which could lead to occupational asthma.

Section 4. First Aid Measures	
Inhalation:	Irritates nose and throat, can cause an asthmatic type reaction. Remove affected person to fresh air, obtain medical attention if there is any respiratory distress. Remove from exposure.
Skin Contact:	Rosin and rosin derivatives can cause a rash to develop. Wash hands with soap and warm water after handling. If any skin irritation develops seek medical advice. Hot contact - cool affected parts thoroughly under running water. DO NOT remove adhering material, obtain medical attention.
Eye Contact:	Irritating and abrasive. Flush immediately with plenty of water, ensure that the eyeball and the inside of the eyelids are properly bathed by gently prising open the eyelids. Also make sure that the contaminated water runs off the face away from the eyes. Seek medical attention.
Ingestion:	Will irritate gastric tract. If the casualty is unconscious but breathing, place on one side in the recovery position. If breathing has stopped apply artificial respiration or give oxygen by mask. If the patient is conscious, then encourage the patient to rinse the mouth out several times with water but do not induce vomiting. Do not give anything to drink if the patient finds it difficult to swallow. *Obtain urgent medical attention.

Section 5. Fire Fighting Measures	
Suitable extinguishing media:	Dry chemical, carbon dioxide, water spray or foam.
Do not use:	Water in a jet.
Exposure hazards:	Irritant fumes.
Protective measures:	Fire fighters should wear full protective clothing and breathing apparatus, operated in positive pressure mode.

Section 6. Accidental Release Measures	
Personal precautions:	Refer to Section 8, Personal Protection.
Environmental precautions:	Refer to Section 13, Disposal.
Methods of clearing up:	Avoid contact with the skin. Scrape up and place in closed container for subsequent disposal.

Section 7. Handling & Storage	
Handling:	Avoid inhaling the flux fumes. Wash the hands with soap and warm water after handling, particularly before eating and drinking and smoking.
Storage:	These products should be stored in a cool dry area.

Section 8. Exposure Controls & Personal Protection		
Occupational Exposure Limits:-		
Substance:	Long Term Exposure Limits (8 Hour TWA)	Short Term Exposure Limit (15 min)
Rosin core solder pyrolisis products (as formaldehyde).	0.1 mg/m³	0.3 mg/m³ Sen
Personal Protection:-		
Respiratory protection	Not generally required unless there is inadequate extraction.	
Eye Protection:	Use of safety glasses or goggles is recommended.	
Skin Protection:	Butyl rubber gloves, suitable work wear should be worn to protect clothing.	

Section 9. Physical & Chemical Properties.			
Appearance / colour:	pale white waxy.	Melting Point°C:	50-56
Odour:	Mild.	Auto ignition temperature °C:	N/A
Boiling point°C:	above 300	Explosive limits (% vol):	Insoluble
Flash point (closed) °C:	above 250	Solubility/miscibility:	N/D
Explosive / oxidising:	N/A	Volatile content (V.O.C):	N/A
Viscosity:	N/D	Vapour density (air = 1):	N/D
Vapour pressure:	N/A	Conductivity	N/D
Evaporation rate:	N/A	Specific Gravity:	N/D
Flammability:	N/A		
pH/Concentration:	N/D		

Section 10. Stability & Reactivity	
Conditions to avoid:	Any sources of ignition
Materials to avoid:	Strong oxidising agents Irritant fumes

Section 11. Toxicological Information (toxic effects arising from exposure based on experimental and non experimental data)	
Inhalation:	Main route of exposure for flux fumes. When heated emits fumes that irritate the respiratory system.
Eye contact:	The flux fumes may irritate the eyes.
Skin contact:	Rosin and rosin derivatives can cause an allergic skin reaction. Heated material may cause burns.
Ingestion:	The flux fumes produced during soldering will irritate the nose and throat. For personnel that have become sensitised to rosin fumes, exposure can cause symptoms of asthma attacks of wheezing), chest tightness and breathlessness - alveolitis breathlessness and flu like symptoms), or rhinitis and conjunctivitis (runny or stuffy nose and watery or prickly eyes typical of hay fever). Rosin can also cause sensitisation by skin contact causing dermatitis. Note that personnel that are sensitised to rosin may also react to modified rosins or vice versa.
Acute toxicity:Flux	
LD50 (Oral rat):	Modified rosin >2500mg/Kg.

Section 12. Ecological Information	
(Possible environmental effects and behaviour /ODP/aquatic toxicity):	(See section 13. Disposal Considerations).

Section 13. Disposal Considerations	
(Safe disposal of product, its residues and packaging materials):	Disposal must be in accordance with local and national legislation.

Section 14. Transport Information	
	This product is NOT classified as dangerous for transportation.

Section 15. Regulatory Information	
Labelling Information	
Indication of danger:	-
Contains:	Modified rosins.
Risk phrases:	42/43 - May cause sensitisation by inhalation (flux fumes) and skin contact.
Safety phrases:	23 - Do not breath fumes 24 - Avoid contact with skin 37 - Wear Suitable gloves.

Section 16. Other Information	
Recommended uses and restrictions:	Use only as directed.
Publications references:	Compiled in accordance with CHIP 2 Regulations 1994. HSE Approved Code Of Practise, document L62. Dangerous Substances Directive 57/548/EEC as amended by directive 92/32/EEC Dangerous Preparations Directive 88/379/EE as amended by Directive 90/492/EEC The Health & Safety at Work Act 1974 The Control of Substances Hazardous to Health Regulations 1994 The Management of Health and Safety at Work Regulations 1992 The Management of Health and Safety at Work (Amendment) Regulations 1994

Section 17. Revision Dates	
Revised Date / Initials:	August 1999/ 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

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