



# No Clean Flux TS 3-FL Material Safety Data Sheet

# MSDS

## SECTION 1 : PRODUCT IDENTIFICATION

Trade Name	<b>TS 3-FL</b>
Common Name	Soldering Flux
Chemical Composition	Proprietary Mixture
Product Use	For electronics/electrical soldering application

## SECTION 2 : PRODUCT COMPONENT

	CAS Number	Weight %	OSHA PEL	ACGIH TLV
Aliphatic Alcohol	67-63-0	84.0 - 88.0 %	400 ppm	400 ppm
Carboxylic Acid	68937-72-4	1.0 - 2.0 %	NA	NA

NA = Not Applicable

## SECTION 3 : PHYSICAL DATA

Boiling Point (°C)	82.0 - 85.0
Vapour Pressure @ 20°C (mm Hg)	33.0
Vapour Density (Air = 1)	2.0
% Volatile by Volume	97.0
Physical State	Liquid
Odour	Alcohol
Colour	Clear, slight yellowish liquid
pH	4.50
Melting Point	NA
Specific Gravity (Water = 1)	0.801
Evaporation Rate (Butyl = 1)	2.30
Solubility in Water	Insoluble
Solubility in Solvent	Soluble in Acetone, Alcohol, etc.

NA = Not Applicable



## INTERFLUX® SINGAPORE PTE LTD

Interflux® Singapore Pte Ltd  
362 Upper Paya Lebar Road  
#07-10 Da Jin Factory Building  
Singapore 534963  
Tel : (65) 6858 1611, Fax : (65) 6234 6217  
E-mail : ifsin@singnet.com.sg

**For Distributor :**



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# MSDS

### SECTION 4 : FIRE & EXPLOSION HAZARD DATA

Flash Point (°C)		16.0
Ignition Point (°C)		-
Flammable Limit in Air (%)	Lower	2.0
	Upper	12.0
Extinguishing Media	Alcohol resistant foam. Dry chemical powder, water mist, carbon dioxide, sand or earth may be used for small fires only.	
Special Fighting Procedure	Cool containers that are exposed to flames with water until well after the fire is out.	

### SECTION 5 : REACTIVITY DATA

Stability	Stable
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide
Incompatibility (Material to avoid)	Neoprene not suitable for continuous use. React violently with hydrogen (with palladium), nitroform, oleum, carbonyl chloride and potassium-tert-butoxide and all strong oxidizing agents.
Conditions to Avoid	Heat, flames and sparks

### SECTION 6 : HEALTH HAZARD DATA

#### Acute Signs / Effects of Exposure

Ingestion	Can cause gastrointestinal irritation, vomiting, nausea and dermatitis.
Skin Contact	Prolonged or repeated contact can cause defatting and dermatitis.
Inhalation	Can cause nasal irritation, dizziness, nausea and headache.
Eye Contact	Can cause severe irritation, tearing and blur vision. Will injure eye tissue if not removed promptly.
Listed Carcinogens	None.

#### Emergency & First Aids Procedures

Ingestion	Call physician or Poison Control Centre immediately. DO NOT induce vomiting. Never give anything by mouth to an unconscious person.
Inhalation	Move person to fresh air. If breathing is difficult, administer oxygen. If rapid recovery does not occurs, obtain medical attention immediately.
Eye	Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.



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### SECTION 7 : SPECIAL PROTECTIVE EQUIPMENT

Respiratory Protection	If threshold limit value is exceeded, use NIOSH approved respirator for organic vapours.
Hand / Body Protection	PVC gloves. Standard issue work clothes. Safety shoes or boots - chemical resistant. If splashes are likely to occur, wear PVC apron.
Eyes & Body Protection	Chemical splash goggles in compliance with OSHA regulations are advised. Provide eye bath near work site. Always protect eyes.
Ventilation	Use only in well ventilated areas.

### SECTION 8 : SPILL, LEAK & DISPOSAL PROCEDURES

Action to be taken if material spilled	Notify safety personnel, evacuate area & eliminate all sources of ignition. Increase area of ventilation. Personnel involved in clean up should have protection from inhalation of vapour & contact with liquid - refer to section 7 for protective equipment. Pick up spill with absorbent solids, place in sanitary landfill or by incineration. Remove trace residues from area by flushing with plenty of water.
Waste Disposal Method	Scrap liquid may be disposed of by a licensed waste disposal company or disposed of or incinerated in accordance with the Federal States or local regulations.

### SECTION 9 : HANDLING & STORAGE

Handling	Avoid breathing vapour or mists. Use only in well ventilated areas. Use local exhaust extraction. Do not empty into drains.
Storage	Keep container tightly closed & in a well ventilated place. Keep away from direct sunlight. Recommended max. storage time (1 year) Recommended max. storage temperature (30°C)
Hygienic Work Practice	Foods and drinks should not be consumed or tobacco products used, nor cosmetics applied in area where fluxes/thinner are used. Always wash hands after handling fluxes or thinner before eating, drinking and smoking.
Other Precautions	Containers : since empty containers may retain product residues, all labelled hazard precautions must be observed. <b>FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.</b>

