



MATERIAL SAFETY DATA SHEET	ALMIT RC - 15SH - RMA FLUX
-----------------------------------	-----------------------------------

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION
--

Trade Name	Rosin based Soldering Flux.
Composition	RC - 15SH is a high grade Water Free Rosin based mildly activated flux dissolved in Propan - 2 - OL solvent (Isopropanol) Information covers Almit Types D, E & F
Manufacturer / Supplier	Almit Technology Ltd.
Address	Unit 7 Forest Row Business Park Station Road Forest Row East Sussex RH18 5DW
Phone Number (United Kingdom)	01342 822 844
Fax Number (United Kingdom)	01342 824 155

SECTION 2. COMPOSITION AND INFORMATION ON THE INGREDIENTS
--

Preparation - Hazardous Components (% w/w)		
Activators & Inhibitors	Propan - 2 - OL	Non Hazardous Ingredients
< 5%	< 90%	< 5%
Not classified	Risk R11,36,37,38. CAS 67-63-0 F: Highly Flammable. Xi: Irritant.	Not classified EC No. 200-746-9

SECTION 3. HAZARDS IDENTIFICATION
--

Main Hazards	Highly Flammable, May cause irritation to the Eyes & Skin.
Health Effects - Eyes	Flux will cause conjunctival irritation and possible corneal damage.
Health Effects - Skin	Repeated or prolonged contact may cause Itching, Sensitisation, Soreness, Defatting of the skin and Dermatitis.
Health Effects - Ingestion	Long term exposure may include:- Constipation or Diarrhoea, Fatigue, Anorexia, Abdominal pain, Reduction in the oxygen carrying capacity of the blood. Swallowing may cause irritation of the mouth & digestive tract.
Health Effects - Inhalation	Inhalation of dust and / or fumes will result in symptoms similar to those for ingestion, also Gastrointestinal irritation and Vomiting. Repeated exposure / slow elimination may result in accumulation.

SECTION 4. FIRST AID MEASURES

Eye contact	Flood the eye immediately with copious amounts of cool fresh water for 10 - 15 mins. Pay particular attention to under the eyelids. Call for immediate medical attention.
Skin contact	Wash the skin with soap and warm water. If any soreness or inflammation persists call for medical attention. Wash all contaminated workwear before re-use.
Ingestion	Do not induce vomiting. Keep warm and rest. Wash out mouth. Call for immediate medical attention.
Inhalation	Remove at once to fresh air. Keep warm and rest. Call for immediate medical attention if there is any respiratory distress.

SECTION 5. FIRE FIGHTING MEASURES	
Extinguishing media	Use an Alcohol resistant foam, Dry chemical or Carbon Dioxide. Sand may be used for small fires. Vapours may re-ignite.
Unsuitable Extinguishing media	Do NOT use water jet.
Special hazards	Containers may explode when exposed to heat, Vapour can travel to a fresh source of ignition and Flash Back. Vapour may collect in hollows or pockets.
Fire fighters protective equipment	Wear full protective clothing and Self contained breathing apparatus operating in the positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	Wear the appropriate protective clothing. Eliminate all sources of ignition. Vapour is heavier than air and will collect at the lowest points. Cellars and hollows etc.
Environmental precautions	Prevent any material entering watercourses and drains etc. Advise the Local and River authorities if spillage has entered watercourses soil or vegetation.
Spillage	Beware of vapour pockets collecting to form explosive concentrations. Absorb with Sand, Earth or other inert absorbent material. Small spillage's can be washed away with water. Larger volumes should be collected and disposed of correctly.

SECTION 7. HANDLING AND STORAGE	
Handling	Use in a well ventilated area. Avoid inhalation of the vapours or soldering fumes. Avoid all contact with the eyes and skin. Removed any contaminated clothing. Keep the container upright and sealed at all times. The larger (25 Litre) containers are heavy. Suitable precautions must be taken when lifting or pouring.
Storage	Store in a cool dry well ventilated area in the manufactures original containers. Ensure containers are correctly labelled. Store away from heat or sources of ignition.

SECTION 8. PERSONAL PROTECTION AND EXPOSURE CONTROL	
National standards for Occupational Exposure	See also Regulatory Information. TLV 400ppm CAS 67-63-0 OSHA PEL 400ppm ACGHIH TLV 400ppm
Engineering control procedures	Engineering solutions should be implemented to prevent or reduce exposure to soldering fumes and dust. This should include process or personnel enclosure, Mechanical dust and fume extraction to atmosphere / scrubber. Control of process to reduce or eliminate emissions. Documented process and safety controls and personnel protection, Gloves, Masks etc. Provide adequate ventilation and provide safe solutions for lifting and pouring heavy containers.
Respiratory protection	Where there is a high risk of vapour and fume ingestion a respirator should be worn.
Hand protection	Wash hands after handling with soap & warm water, particularly before eating or drinking. Use Nitrile or PVC gloves.
Eye and Facial protection	Wear Chemical Goggles or Safety glasses as appropriate.
Body protection	Normal industrial workwear, avoid exposed skin. Wear protective boots when handling drums. Use a Rubber apron.

SECTION 9. CHEMICAL AND PHYSICAL PROPERTIES	
Appearance	Amber coloured liquid.
Odour	Alcohol odour
Boiling Point	82 Deg's C
Flash point	10 - 12 Deg's C
Auto-ignition Temperature	425 Deg's C
Freezing Point	27 Deg's C
Vapour Pressure	33.00 mmHg
Vapour Density	(Air = 1) >2
Evaporation Rate	(Butyl Acetate = 1) >1.5
Specific Gravity	0.815 @ 20 Deg's C
Solubility	85%
Water Reactive	None

SECTION 10. STABILITY AND REACTIVITY	
Stability	Stable
Conditions to avoid	Open flame, ignition sources, strong oxidisers.
Materials to avoid	Strong oxidisers & ignition sources.
Hazardous Decomposition products	Oxides of Carbon, acid fumes.
Hazardous Polymerisation	Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION	
Acute toxicity - Oral	D 50 > 2000 mg/kg
Acute toxicity - Dermal	D 50 > 2000 mg/kg
Acute toxicity - Inhalation	D 50 > 5mg/L
Irritancy - Eyes	Slight irritant
Irritancy - Skin	Slight irritant
Skin contact	May cause skin sensitisation.
Chronic Toxicity / Carcinogens	Repeated exposure may cause Liver damage.
Human	May aggravate an existing Dermatitis, due to irritating and defatting process. Can cause drowsiness and dizziness.

SECTION 12. ENVIRONMENTAL INFORMATION	
Ecotoxicity	Poses a significant risk to aquatic species due to oxygen depletion.
Degradability and Persistence	Readily biodegrades.
Bio-accumulation	Not expected to accumulate.
Mobility	Readily dissolves in water.

SECTION 13. DISPOSAL PROCEDURES	
Product disposal	Waste should be disposed under the "Special Waste" regulations. COPA 1980. . Control of Pollution Act 1974, and the Environmental Protection Act 1990.
Container disposal	Containers must not be re-used. Dispose with care. See above.

SECTION 14. TRANSPORT PROCEDURES	
DOT shipping name	Compound Cleaning Liquid
DOT ID No.	NA 1993
DOT Classification	Flammable liquid

SECTION 15. REGULATORY INFORMATION

Label Information	Highly Flammable, Irritant,
Risk phrases	R11: Highly Flammable R36/37/38: Irritating to Eyes, Respiratory System and Skin.
Safety phrases	S7: Keep container tightly closed. S16: Keep away from sources of ignition - No Smoking. S24/25: Avoid contact with skin & eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
EC Annex I classification	F: Flammable Xi: Irritant
Applicable EC Directives	Dangerous Substances Directive 67/548/EEC and as amended by Directive 92/32/EEC Dangerous Preparations Directive 88/379/EEC and as amended by Directive 90/492/EEC
Applicable UK Legislation	The Control of substances Hazardous to Health Regulations 1994 The Health and Safety at Work Act 1974 The Management of Health and Safety at Work Regulations 1992 The Management of Health and Safety at Work Regulations 1994 as Amended
Technical Guidance	An Introduction to Local Exhaust Ventilation HS(G)37: A Step by Step Guide to the COSHH Regulations HS(G)97:

This safety data sheet has been revised and re-written to comply with the Chemicals (Hazard Information & Packaging) Regulations 1993. Commission Directive 91/155/EEC.

SECTION 16. OTHER INFORMATION

The information contained in this document is based on data considered to be accurate at the time of publication and is given free of charge. It is representative of typical product but batches may exhibit minor variations.

No warranty is expressed or implied concerning the accuracy of this data.

In case of doubt or for clarification Almit Technology should be consulted. Almit are unable to anticipate all conditions under which the product may be used, and users are advised to carry out an assessment of workplace risk and carry out their own tests to determine the Safety and Suitability for the process and conditions of use.

This information is intended for use in the United Kingdom only, as different limits may be set in other countries. Please check with your Local and National Authorities or Supplier.

End