

MATERIAL SAFETY DATA SHEET

ALMIT SOLDER CREAM

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION	
Trade Name	Almit Solder Cream. Grade V14L, V14LH, V16L, V16LH,
	SSHA
Tin / Lead Alloys	Sn63
Manufacturer / Supplier	Almit Technology Ltd.
Address	Unit 7 Forest Row Business Park
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	Forest Row
	East Sussex
	RH18 5DW
Phone Number (United Kingdom)	01342 822 844
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Tin	Lead	Colophony
62.50 - 63.50	Balance	9 - 13
R36/37/38	R20/21/22/33	R42/43
Not Classified	Not Classified	Irritant

SECTION 3. HAZARDS	IDENTIFICATION
Main Hazards	Contact with the molten liquid will cause severe burns. Repeated
	exposure may cause cumulative effects. Sensitisation by Skin Contact
Health Effects - Eyes	Molten liquid will cause severe burns and may result in blindness.
	Cream will cause conjunctival irritation and possible corneal damage.
Health Effects - Skin	Contact with the molten liquid will cause severe burns.
	Repeated or prolonged contact may cause Itching, Sensitisation,
	Soreness, Defatting of the skin and Dermatitis.
Health Effects - Ingestion	Contact with the molten liquid will cause severe burns.
	Solder alloy contains Lead which is a cumulative poison.
	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 coupled with slow elimination may result in
	accumulation. Lead absorbed into the body of a pregnant woman can
	cause developmental abnormalities in the nervous system of the foetus.

SECTION 4. FIRST AID MEAS	SURES
Eye contact	Flood the eye immediately with copious amounts of cool fresh
	water for 10 - 15mins. 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 reuse.
	After contact with molten liquid, flood with cold water.
	Call for immediate medical attention.
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, Water spray, Dry chemical or
	Carbon Dioxide. Sand may be used for small fires.
Unsuitable Extinguishing media	Do NOT use water jet.
Special hazards	Gives off hazardous fumes in a fire.
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
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	Wipe up with disposable towels, transfer waste into a suitable
	container for safe disposal. Avoid creating dust.

SECTION 7.	HANDLING AND STORAGE	
Handling		Avoid contact with the eyes and skin. Avoid breathing fumes and dust. Use local exhaust ventilation. Avoid contaminated workwear.
Storage		Store in a cool dry ventilated area in manufactures containers. Ensure correctly labelled.

SECTION 8. PERSONAL PROTECTION AND EXPOSURE CONTROL	
National standards for Occupational	See also Regulatory Information.
Exposure	
Lead	Control of Lead at Work Regulations: 0.15 mg/m ³ 8hr TWA.
Tin	UK EH40: OES 2.0mg/m ³ 8hr TWA.
	UK EH40: OES,STEL 4mg/m ³ 15mins.
Colophony	UK EH40: MEL 0.05mg/m ³ 8hr TWA
	UK EH40: MEL, STEL 0.15mg/m ³ 1`5mins
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.
Respiratory protection	Where there is a high risk to fume and dust ingestion a respirator should be worn.
Hand protection	When handling hot liquid (to be avoided if possible) thick thermally insulating gloves should be worn. Avoid damp or wet gloves. Wash hands after handling with soap & warm water, particularly before eating or drinking.
Eye and Facial protection	A full heat resistant helmet face shield should be worn, when handling hot liquid. Goggles or Safety glasses as appropriate.
Body protection	Normal industrial workwear, avoid exposed skin.

Biological Standards

For blood lead monitoring and medical surveillance requirements, refer to the HSC Approved code of practice supporting the Control of Lead at Work Regulations.

Employees should be under medical surveillance IF the Risk Assessment made under the Control of Lead at Work Regulations indicates they are likely to be exposed to significant concentrations of lead, or if the Company medical advisor or a Doctor certifies that an employee should be under medical surveillance.

A female employed on work which exposes her to lead MUST notify her employer as soon as possible if she becomes pregnant. The Company medical Adviser should be advised of her pregnancy and working environment i.e.: Exposure to Lead.

Under the management of Health And Safety at Work (Amendment) Regulations 1994 employers should assess the risks at work to the health of pregnant workers, those who have recently given birth, or who are currently Breast feeding.

SECTION 9. CHEMICAL AND PHYSICAL PROPERTIES		
Density (g.cm ⁻³) at 20° C	8.40 Approx.	
Liquidus	183 [°] C	
Colour and appearance	Grey metallic	
Physical state	Metallic cream, Solid at room temperature	
Solubility in Water	Insoluble	
Odour	Mild	

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SECTION 10. STABILITY AND REACTIVITY	
Stability	Stable under all normal factory condition's
Conditions to avoid	None known
Materials to avoid	Solder will react with concentrated Nitric Acid to release Nitric Oxide which will oxidise to Nitrogen Dioxide. Workers exposed to these gasses should seek medical attention. Other strong acids may also react in a similar way. Solder cream will react with strong oxidising agents, with potentially explosive violence.
Hazardous Decomposition products	Molten liquid may give of fumes. Avoid temps. above 500 ⁰ C
	Heated Colophony gives rise to fumes associated with asthma.

SECTION 11. TOXICOLOGICAL INFORMATION	
Acute toxicity	Can lead to weakness, insomnia, hypertension, headaches and
	joint pains. Low order of toxicity.
Irritancy - Eyes	May cause conjunctival irritation, corneal damage, and iritis.
Irritancy - Skin	May cause skin irritation.
Reproductive and Developmental	Lead may cause developmental problems in a foetus.
Skin contact	Absorption through the skin is not significant.
Chronic Toxicity / Carcinogens	Damage in the blood - forming, nervous, urinary and reproductive
	systems. Lead is classified as a 2B carcinogen by the IARC (1987)
Human	Inhalation may cause sensitisation of the respiratory system.

SECTION 12. ENVIRONMENTAL INFORMATION	
Ecotoxicity	Rated as slightly toxic to Aquatic species.
Degradability and Persistence	Resistant to Bio-degradation.
Bio-accumulation	Has the potential to bio-accumulate.
Mobility	A small portion will dissolve in water, will accumulate in soil.

SECTION 13. DISPOSAL PROCEDURES	
Product disposal	Waste should be disposed under the "Special Waste" regulations.
	COPA 1980. Metal should be recycled if possible and disposed
	through your metal supplier if possible. Control of Pollution Act
	1974, and the Environmental Protection Act 1990.
Container disposal	Containers must not be reused. Dispose with care. See above.

SECTION 14. TRANSPORT PROCEDURES	
UN Number	Not Classified as hazardous for transport.
ADR/RID - Class	Not Classified as hazardous for transport.
IMDG - Class	Not Classified as hazardous for transport.
IMDG - Marine pollutant	Not marked as a marine pollutant.
IATA - Class	Not Classified as hazardous for transport.

Label Information Risk phrases Safety phrases	Health, Safety, Environment. Irritant.R20/21/22: R42: & R43:
1	R20/21/22: R42: & R43:
Safety phrases	
	P2 warning. Contains Lead. P8 warning contains Colophony
	S23: S24: S37: & S45:
EINECS Listing	Not listed
EC Annex I classification	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
	Lead at work Directive 82/605/EEC
Applicable UK Legislation	The Control of substances Hazardous to Health Regulations 1994
	The Control of Lead at Work Act 1980
	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
	Chemical (Hazard Information & Packaging for Supply)
	Regulations CHIP 1997
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 revise and rewritten to comply with the Chemicals (Hazard Information & Packaging) Regulations 1997. 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 condition's 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 condition's 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

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