



Consolidated Alloys

A Division of C.A. Group Australasia Pty. Ltd.
ABN 83 005 084 097 ACN 005 084 097

Head Office : 32 Industrial Avenue Thomastown, Victoria 3074
AUSTRALIA
Mail : PO Box 199, Reservoir, Victoria 3073
AUSTRALIA
Telephone : (03) 9359 5811
Facsimile : (03) 9359 4076
E-mail : info@cagroup.com.au

Reference No. : M104-C
Product Name : Resincore Solders-Lead Free

MATERIAL SAFETY DATA SHEET

Section 1 : IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **RESINCORE SOLDER – LEAD FREE**
Other Names: **965, 95/5Sb**
Recommended Use: Lead free soldering applications and high temperature soldering.

Supplier's / Manufacturer's

Name: Consolidated Alloys
Address: 32 Industrial Avenue, Thomastown, Victoria 3074, AUSTRALIA
Telephone No.: (03) 9359 5811
Emergency No.: (03) 9359 5811 – Business Hours
0439 062 480 – After Hours (24Hrs)

Poisons Information Centre
Victoria
Telephone No.: 131126

Section 2 : HAZARD IDENTIFICATION

Hazard Classification according to criteria of Worksafe Australia.

Risk Phrase(s) R20/22 Harmful by inhalation and if swallowed.

Safety Phrase(s) S20/21 When using, do not eat, drink or smoke.
S36/37 Wear suitable protective clothing and gloves.



Consolidated Alloys

A Division of C.A. Group Australasia Pty. Ltd.
ABN 83 005 084 097 ACN 005 084 097

Head Office : 32 Industrial Avenue Thomastown, Victoria 3074
AUSTRALIA
Mail : PO Box 199, Reservoir, Victoria 3073
AUSTRALIA
Telephone : (03) 9359 5811
Facsimile : (03) 9359 4076
E-mail : info@cagroup.com.au

Reference No. : M104-C
Product Name : Resincore Solders-Lead Free

MATERIAL SAFETY DATA SHEET

Section 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	Proportion	CAS Number
METAL:		
Tin	95 – 97%	7440-31-5
Antimony	4 – 7%	7440-36-0
Silver	3 – 5%	7440-22-4
FLUX:		
Rosin	1 - 3%	8050-09-7

Section 4 : FIRST AID MEASURES

Description of necessary measures according to route of exposure.

Ingestion:	If ingestion is substantial or irritation persists, seek immediate medical advice.
Eye:	Flush eye(s) with running water for 15 minutes to remove dust or foreign particle. If irritation persists, seek medical attention.
Skin:	Remove contaminated clothing and wash affected area with soap and water. If molten material comes in contact with the skin and adheres – cool quickly with running water – do not attempt to remove. The flux can be removed with soap and water.
Inhalation:	If fume or dust is inhaled, remove victim to fresh air taking care not to become a casualty. Lay patient down and keep warm and rested. With excessive inhalation of the flux some individuals can show sensitivity.
Medical Attention and Special Treatment:	Treat symptomatically.

Additional information

Aggravated Medical Conditions Caused by Exposure: Not expected to cause chronic health effects.



Consolidated Alloys

A Division of C.A. Group Australasia Pty. Ltd.
ABN 83 005 084 097 ACN 005 084 097

Head Office : 32 Industrial Avenue Thomastown, Victoria 3074
AUSTRALIA
Mail : PO Box 199, Reservoir, Victoria 3073
AUSTRALIA
Telephone : (03) 9359 5811
Facsimile : (03) 9359 4076
E-mail : info@cagroup.com.au

Reference No. : M104-C
Product Name : Resincore Solders-Lead Free

MATERIAL SAFETY DATA SHEET

Section 5 : FIRE FIGHTING MEASURES

Extinguishing Media: Dry Chemical Powder or Carbon Dioxide.

Hazards from Combustion Products: Metal: Non Flammable.
Resin: Can burn – if enough is extracted.

Special Protective Equipment: Fire fighters should wear self contained breathing apparatus and protective clothing if exposed to products of decomposition.

Additional information Avoid contact with strong acids, alkalies and oxidants.

HAZCHEM CODE: None Allocated

Section 6 : ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Refer to protection measures listed in 7/8.

Methods and Materials for Containment and Clean Up Procedures

Small Spills / Leaks: In molten state allow to solidify and cool. Break up and recycle as scrap.

Large Spills / Leaks: Molten solder will solidify upon cooling and can be scraped up and recycled as scrap. Use caution to avoid breathing fumes if a gas torch is used to cut up large pieces. If necessary dam the spill area to prevent entry of molten metal to drains. Scrap solder by-products can be recycled by returning to the supplier.

For Personal Protective Equipment (PPE) - refer to Section 8 of this MSDS (if required)



Consolidated Alloys

A Division of C.A. Group Australasia Pty. Ltd.
ABN 83 005 084 097 ACN 005 084 097

Head Office : 32 Industrial Avenue Thomastown, Victoria 3074
AUSTRALIA
Mail : PO Box 199, Reservoir, Victoria 3073
AUSTRALIA
Telephone : (03) 9359 5811
Facsimile : (03) 9359 4076
E-mail : info@cagroup.com.au

Reference No. : M104-C
Product Name : Resincore Solders-Lead Free

MATERIAL SAFETY DATA SHEET

Section 7 : HANDLING AND STORAGE

Precautions for Safe Handling: Ensure good ventilation/extraction system in the workplace. Always wear protective clothing and equipment when molten metal is present.

Conditions for Safe Storage: Store in a dry location away from incompatible materials.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards – as regulated by: Worksafe Australia

Chemical Name	ES – TWA	ES - STEL	ES – Peak
METAL:			
Tin (Dust & Fume)	2.0 mg/m ³		
Antimony	0.5 mg/m ³		
Silver	0.1 mg/m ³		
FLUX:			
Rosin	0.1 mg/m ³ **		

** ROSIN (colophony) – Natural gum has not been established as dangerous in some considerable time during which it has been used. However because the material can be thermally degraded during use, variable decomposition products can be generated. For this reason a TWA value of 0.1mg/m³ - expressed as formaldehyde has been adopted.

Biological Limit Values: No data available.

Engineering Controls: General ventilation/extraction in areas where dust and fumes are produced.

Personal Protective Equipment (PPE)

Eye / Face Protection: Safety Glasses/goggles or full face mask.

Skin Protection: Gloves, safety boots and protective clothing should be worn.

Respiratory Protection: An approved dust/fume respirator should be worn when TWA values may be exceeded.



Consolidated Alloys

A Division of C.A. Group Australasia Pty. Ltd.
ABN 83 005 084 097 ACN 005 084 097

Head Office : 32 Industrial Avenue Thomastown, Victoria 3074
AUSTRALIA
Mail : PO Box 199, Reservoir, Victoria 3073
AUSTRALIA
Telephone : (03) 9359 5811
Facsimile : (03) 9359 4076
E-mail : info@cagroup.com.au

Reference No. : M104-C
Product Name : Resincore Solders-Lead Free

MATERIAL SAFETY DATA SHEET

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid, Bright
Colour	Silver/Yellow
Odour:	Nil
Vapour Pressure:	N/A
Vapour Density:	N/A
Boiling Point:	N/A
Melting Point Range:	180-250oC
Solubility in Water:	Insoluble
Specific Gravity:	Composition is variable, therefore none given.
Flash Point:	N/A
pH:	N/A

For Flammable Limits (as a percentage volume in air)

Lower Explosion Limit :	N/A
Upper Explosion Limit :	N/A
Ignition Temperature:	N/A
Specific Heat Value :	N/A
Particle Size:	N/A
Volatile Organic Compounds (VOC) Content	N/A
Evaporation Rate :	N/A
Viscosity :	N/A
Percent Volatile :	N/A
Octanol/Water partition coefficient :	N/A
Saturated Vapour Concentration :	N/A
Additional Characteristics	N/A
Flame Propagation/Burning Rate of Solid Materials :	N/A
Properties of material that may initiate or contribute to fire intensity :	N/A
Potential for Dust Explosion :	Nil
Reactions that Release Flammable Gases :	Nil
Fast or Intensely Burning Characteristics :	N/A
Non-Flammables that could contribute unusual hazards to a fire :	None
Release of invisible flammable vapour and gases :	Nil
Decomposition Temperature :	N/A

Additional Information

Molecular Weight :	N/A
Solubility :	Insoluble



Consolidated Alloys

A Division of C.A. Group Australasia Pty. Ltd.
ABN 83 005 084 097 ACN 005 084 097

Head Office : 32 Industrial Avenue Thomastown, Victoria 3074
AUSTRALIA
Mail : PO Box 199, Reservoir, Victoria 3073
AUSTRALIA
Telephone : (03) 9359 5811
Facsimile : (03) 9359 4076
E-mail : info@cagroup.com.au

Reference No. : M104-C
Product Name : Resincore Solders-Lead Free

MATERIAL SAFETY DATA SHEET

Section 10 : STABILITY AND REACTIVITY

Chemical Stability:	Stable under the handling and storage conditions listed in section 7.
Conditions to Avoid:	Avoid contact with strong acids, alkalis and oxidants.
Incompatible Materials:	Silver is incompatible with acetylene, ammonia, hydrogen peroxide, bromazine, chlorine trifluoride, oxalic acid and tartaric acid.
Hazardous Decomposition Products:	None
Hazardous Reactions:	None

Section 11 : TOXICOLOGICAL INFORMATION

Toxicity Data:	No data available.
Ingestion:	Unlikely unless in the form of dust or fume. Tin and silver have low oral toxicity.
Eye:	Dust or fumes can cause eye irritation.
Skin:	Avoid contact with skin. Hot or molten metal causes burns.
Inhaled:	Dust or fume may cause irritation of mucous membranes which may result in benign pneumoconiosis (stannosis).

Section 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	The product has no effect on the environment unless in finely divided form.
Persistence / Degradability:	No data available.
Mobility:	No data available.
Environmental Fate:	No data available.
Bioaccumulative Potential :	No data available.



Consolidated Alloys

A Division of C.A. Group Australasia Pty. Ltd.
ABN 83 005 084 097 ACN 005 084 097

Head Office : 32 Industrial Avenue Thomastown, Victoria 3074
AUSTRALIA
Mail : PO Box 199, Reservoir, Victoria 3073
AUSTRALIA
Telephone : (03) 9359 5811
Facsimile : (03) 9359 4076
E-mail : info@cagroup.com.au

Reference No. : M104-C
Product Name : Resincore Solders-Lead Free

MATERIAL SAFETY DATA SHEET

Section 13 : DISPOSAL CONSIDERATIONS

Disposal Methods: Scrap should be recycled by returning to supplier. Do not dispose to landfill. Do not discharge into drains or water courses. Dispose of in accordance with all local, state and federal regulations at an approved waste disposal facility.

Special Precautions for Landfill or Incineration: Not Applicable

The Disposal Considerations mentioned above applies to the material / product described in this MSDS as manufactured. Further processing, use, or contamination of the product may make the information inappropriate, inaccurate or incomplete.

Section 14 : TRANSPORT INFORMATION

UN Number: None Allocated
UN Shipping Name: N/A
Dangerous Goods Class: None Allocated
Packing Group: None Allocated
Special Precautions / Requirement: N/A
HAZCHEM Code: None Allocated

Additional Information –
Material for Export: N/A

Section 15 : REGULATORY INFORMATION

Poison Schedule Number: None Allocated
EPG: None Allocated
AICS Name: N/A
NZ Toxic Substance: N/A



Consolidated Alloys

A Division of C.A. Group Australasia Pty. Ltd.
ABN 83 005 084 097 ACN 005 084 097

Head Office : 32 Industrial Avenue Thomastown, Victoria 3074
AUSTRALIA
Mail : PO Box 199, Reservoir, Victoria 3073
AUSTRALIA
Telephone : (03) 9359 5811
Facsimile : (03) 9359 4076
E-mail : info@cagroup.com.au

Reference No. : M104-C
Product Name : Resincore Solders-Lead Free

MATERIAL SAFETY DATA SHEET

Section 16 : OTHER INFORMATION

Last Revision: 12/12/2007

THIS MATERIAL SAFETY DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION, CONSIDERATION AND INVESTIGATION. CONSOLIDATED ALLOYS PROVIDES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE DATA CONTAINED HEREIN. MATERIAL USE IS BEYOND THE CONTROL OF SUPPLIER.

----- End of MSDS -----