



Reference No. : R609
Product Name : Solder Paste Kemtex B916

MATERIAL SAFETY DATA SHEET

Section 1 : IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **SOLDER PASTE**
Other Names: **KEMTEX B916 'Tinning' Compound**
Recommended Use: Used for tin coating and soldering of metals.

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 only
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)
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R33 Danger of cumulative effects.
R34 Causes burns.
R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrase(s)
S7/8 Keep container tightly closed and dry.
S13 Keep away from food, drink and animal feeding stuffs.
S20/21 When using, do not eat, drink or smoke.
S28 After contact with skin, wash immediately with plenty of soap and water.



Reference No. : R609
Product Name : Solder Paste Kemtex B916

MATERIAL SAFETY DATA SHEET

Section 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	Proportion	CAS Number
Tin Powder	38-42%	7440-31-5
Lead Powder	58-62%	7439-92-1
Zinc Chloride	Approx. 10%	7646-85-7
Ammonium Chloride	<5%	12125-02-9

Section 4 : FIRST AID MEASURES

Description of necessary measures according to route of exposure.

Ingestion:	If vomiting is not spontaneous and if more than 15 minutes from hospital, induce vomiting.
Eye:	If this product comes in contact with the eyes immediately hold eyes open and flush the eye continuously with fresh running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Transport to hospital or a doctor without delay.
Skin:	If this product comes in contact with the skin immediately remove all contaminated clothing, including footwear (after rinsing with water). Wash affected areas thoroughly with soap and water. Seek medical attention in event of irritation.
Inhalation:	If fumes or combustion products are inhaled remove person to fresh air. Lay patient down, keep warm and rested. If breathing is shallow or has stopped, ensure clear airway and apply first aid. Transport to hospital or doctor.
Medical Attention and Special Treatment:	Treat symptomatically. For ingestion, consider gastric lavage.

Additional information

Aggravated Medical Conditions Caused by Exposure:	Exposure to high levels of airborne or ingested lead may produce symptoms of anaemia, insomnia, weakness, constipation, nausea and abdominal pain. Women of child-bearing age should avoid exposure due to postnatal 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. : R609
Product Name : Solder Paste Kemtex B916

MATERIAL SAFETY DATA SHEET

Section 5 : FIRE FIGHTING MEASURES

Extinguishing Media: Non Combustible.

Hazardous Combustion Products: Slight hazard when exposed to heat. Will not burn, but heat produces toxic fumes. Decomposes on heating and produces toxic fumes of chlorides, nitrogen oxides and zinc oxides. Heating may cause expansion or decomposition leading to violent rupture of containers.

Special Protective Equipment: Fire fighters should wear self contained breathing apparatus and full protective clothing along with protective equipment.

Additional information Alert the Fire Brigade and notify them of the location and nature of hazard.

HAZCHEM CODE: 2X

Section 6 : ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Personnel involved in the clean up should wear full protective clothing.

Methods and Materials for Containment and Clean Up Procedures

Small Spills / Leaks: Collect all solids and store in a labelled container for safe disposal.

Large Spills / Leaks: Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Collect residues and seal in labelled drums for disposal. Wash away spill area with detergent and water. After clean up operation, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs as a result of the above actions, advise emergency services.

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



Reference No. : R609
Product Name : Solder Paste Kemtex B916

MATERIAL SAFETY DATA SHEET

Section 7 : HANDLING AND STORAGE

Precautions for Safe Handling: Wear protective clothing.

Conditions for Safe Storage: Check that the containers are clearly labelled. Packaging as recommended by manufacturer. Store in original containers. Store in a cool well-ventilated area. Store away from incompatible materials and keep containers securely sealed. Protect containers against from getting damaged and check regularly spills and leaks.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards – *as regulated by:* Worksafe Australia

Chemical Name ES – TWA

Tin	2.0 mg/m ³
Lead	0.15 mg/m ³
Zinc Chloride	1.0 mg/m ³
Ammonium Chloride	10.0 mg/m ³

Biological Limit Values No data available.

Engineering Controls: To avoid generation of fume – provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure levels below TWA's. Use good occupational work practices. When handling, DO NOT eat, drink or smoke. Observe manufacturer's storing and handling recommendations.

Personal Protective Equipment (PPE)

Eye / Face Protection: Safety glasses or face masks recommended. An eye bath should be located near the work area.

Skin Protection: Avoid contact with shin/eyes. Wear impervious PVC or Rubber gloves and safety boots. Gloves and protective clothing should be worn and kept clean. Work clothes should be laundered separately. Always wash hands with soap and water after handling.

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



Reference No. : R609
Product Name : Solder Paste Kemtex B916

MATERIAL SAFETY DATA SHEET

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Grey paste
Colour:	Grey
Odour:	None
Vapour Pressure:	N/A
Vapour Density:	N/A
Boiling Point:	N/A
Melting Point:	N/A
Solubility in Water:	Partly
Specific Gravity:	Approx. 3
Flash Point:	None
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 :	N/A
Reactions that Release Flammable Gases :	N/A
Fast or Intensely Burning Characteristics :	N/A
Non-Flammables that could contribute unusual hazards to a fire :	N/A
Release of invisible flammable vapour and gases :	Heat may produce toxic fumes.
Decomposition Temperature :	N/A

Additional Information

Molecular Weight :	N/A
Solubility :	Partly in water.



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. : R609
Product Name : Solder Paste Kemtex B916

MATERIAL SAFETY DATA SHEET

Section 10 : STABILITY AND REACTIVITY

Chemical Stability: Non Combustible. Product is stable under normal conditions of use and storage.

Conditions to Avoid: Keep container sealed and in a cool well-ventilated area.

Incompatible Materials: Incompatible with halogens such as chlorine, bromine trifluoride, iodine trifluoride and potassium chlorate. Avoid contact with mineral turpentine, hot water and ammonium nitrate.

Hazardous Decomposition Products: Will not burn but heat produces toxic fumes. May generate hazardous gases including chlorides, nitrogen oxides and zinc oxides.

Hazardous Reactions: Contact with strong acids may evolve hydrogen chloride gas.
Contact with strong bases may evolve ammonia gas.

Section 11 : TOXICOLOGICAL INFORMATION

Toxicity Data: For Zinc Chloride: Acute oral LD₅₀ (Rat): 350 mg/kg.

Ingestion: The material is harmful and corrosive to the gastro-intestinal tract if swallowed. Considered an unlikely route of entry in commercial and industrial environments.

Eye: The material is corrosive to the eyes and is capable of causing severe damage with loss of sight.

Skin: The material is corrosive and is capable of causing skin reactions from repeated exposure over long periods.

Inhalation: The vapour is corrosive to the upper respiratory tract. Inhalation of vapours is more likely at higher than normal temperatures.



Reference No. : R609
Product Name : Solder Paste Kemtex B916

MATERIAL SAFETY DATA SHEET

Section 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	No ecological information available for this product.
Persistence / Degradability:	No data available.
Mobility:	No data available.
Environmental Fate:	Avoid contaminating drains, sewers or waterways.
Bioaccumulative Potential :	No data available.

Section 13 : DISPOSAL CONSIDERATIONS

Disposal Methods:	Dispose of in accordance with all Local, State and Federal regulations at an approved waste disposal facility.
Special Precautions for Landfill or Incineration:	Since empty containers may retain product residues they must be disposed of at an approved waste disposal facility.

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:	1760
UN Shipping Name:	CORROSIVE LIQUID, N.O.S.
Dangerous Goods Class:	8
Packing Group:	III
Special Precautions / Requirement:	None
HAZCHEM Code:	2X
Additional Information – Material for Export:	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. : R609
Product Name : Solder Paste Kemtex B916

MATERIAL SAFETY DATA SHEET

Section 15 : REGULATORY INFORMATION

Poison Schedule Number: 6
EPG : 8A1
AICS Name : N/A
NZ Toxic Substance N/A

Section 16 : OTHER INFORMATION

Last Revision: 01/08/2019

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 -----