

COMPANY DETAILS

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T/AS
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CLASSIFICATION OF MATERIAL

Hazardous under Worksafe Australia guidelines

IDENTIFICATION

Product Name	<i>FLUX TYPE 104</i>
Use	<i>Fire Assay Flux</i>
Poison Schedule	<i>S6</i>
Manufacturers Product Code	F104

PHYSICAL DESCRIPTION/PROPERTIES

Appearance	Tan yellow powder
Boiling point/ Melting Point (deg C)	No Data
Specific Gravity	No Data

Vapour Pressure (Pascals of mm of Hg at 25 Deg c)	No Data
Flashpoint (deg C)	Not Applicable
Flammability Limits (%)	LEL – Not Applicable UEL – Not Applicable
Solubility in water (g/L)	some constituents are water soluble

INGREDIENTS

Chemical Entity	CAS No.	Proportion (%mass)
Lead Monoxide	1317-36-8	23.7%
Sodium Carbonate	497-19-8	47.5%
Sodium Tetraborate	1330-43-4	20%
Kerosene		1%
Silver Nitrate	7761-88-8	<1%
Non Hazardous Materials		To 100%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Acute:

- Swallowed: Primary irritant due to sodium carbonate content. Ingestion is considered to be very harmful to the victim, symptoms include nausea, vomiting, headaches and dizziness. Ingestion of borates and lead is considered very harmful.
- Eye: Highly irritating due to abrasiveness and alkalinity of sodium carbonate content.
- Skin: Irritating. Product on skin may cause redness and itching due to alkaline defatting effects. Lead is poorly absorbed when compared to inhalation and ingestion routes.
- Inhaled: Considered highly irritating and harmful by inhalation. Sodium carbonate will irritate the mucous membranes and upper respiratory tract. Lead may be absorbed into the body by inhalation and cause systemic effects.

Chronic: Lead is a systemic poison which may cause anaemia, kidney damage, and impaired sight and build up in the central nervous system and brain leading to nervous disorders.

FIRST AID

Swallowed: Rinse mouth with fresh water and give 1 to 2 glasses of water to drink. Induce vomiting with syrup of EPECAC and give more water. Seek immediate medical assistance.

Eye: Hold affected eye open and flush with running water for at least 15 minutes

Skin: Remove contaminated clothing and wash affected areas well with water.

Inhaled: Remove patient to fresh air seek medical advice.

Advice to Doctor: Treat for exposure to lead compounds, borates and alkaline materials.

PRECAUTIONS FOR USE

EXPOSURE LIMITS: No value assigned for this specific material by the National Health & Medical Research Council.

However threshold limit value (TLV) for lead, inorganic dust and fumes, as Pb: 0.15 mg/m³.
As published by National Health & Medical Research Council.

TLV is the time weighted average concentration of the work atmosphere for a normal 8-hour work day and a 40-hour work week, to which nearly all workers can be repeatedly exposed, daily without adverse effect.

These TLV's are issued as guidelines for good practice. All atmospheric contamination should be kept to as low a level as is practically possible. These TLV levels should not be used as fine lines between safe and dangerous concentrations.

PERSONAL PROTECTION

Eye: Chemical safety glasses

Hand: Natural rubber or PVC gloves
Respirator type: Particulate dust respirator as selected to AS1715
Protective Clothing: Cotton coveralls

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT:

Not defined as a Dangerous Good by the Australian code for the Transport of Dangerous Goods by Road and Rail. The product is scheduled as poison (S6) and must therefore be stored, maintained and used in accordance with the relevant State Poisons Act.

At all times to be stored away from foodstuffs. Store in well ventilated area and keep containers closed at all times.

SPILLS:

Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination and inhalation of dust. Cover with damp absorbent (sawdust, sand or soil). Sweep up but avoid generating dust. Collect and seal in properly labelled drums for disposal.

DISPOSAL:

Refer to State Land Waste Management Authority.

FIRE/EXPLOSION HAZARDS:

Not combustible. Decomposes on heating, emitting toxic fumes. Fire fighters are to wear self contained breathing apparatus if risk of exposure to dust or products of decomposition.

OTHER INFORMATION

The above information is accurate to the best of the knowledge available to us. However since data safety standards and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control we make no warranty, whether expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for the relevance thereon. User should satisfy themselves that they have all current data relevant to their particular use.