

MMX2 Casting Alloy

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name: MMX2 Casting Alloy
Chemical Name:
Supplier: Jacobson Chemicals Ltd
Unit 4
Newman Lane Industrial Estate
Alton
Hants
GU34 2QR
Telephone: 01420 86934
Fax: 01420 549574
E-mail: sales@jacobsonchemicals.co.uk

2. COMPOSITION

<u>Constituents</u>	<u>%</u>	<u>CAS No</u>	<u>Hazard</u>
Lead	Balance	7439-92-1	R61, R20/22, R62
Tin	88	7440-31-5	
Antimony	3	7440-36-0	R20/22, R51/53(2)

3. HAZARD IDENTIFICATION

LEAD

Inhalation: -
Skin Contact: Unlikely to cause a problem.
Eye Contact: Unlikely to cause a problem.
Ingestion: Constipation, abdominal pain, nausea.
Long Term Exposure: Lead and its compounds may also cause damage to central nervous system, gastrointestinal disturbances, anaemia and wristdrop. kidney disfunction and possible injury has been associated with chronic lead poisoning.

Lead is considered moderate to high toxicity. In the ingot or stick form as sold it is unlikely to be considered a health hazard. However, lead fumes may be produced when the material is melted and lead will be present in any dross dust. Lead can lead to possible systemic effects and long-term effects as it is considered a cumulative poison.

MMX2 Casting Alloy

ATIMONY

Inhalation:	May cause sore throat, shortness of breath.
Skin Contact:	Unlikely to cause a problem.
Eye Contact:	Unlikely to cause a problem.
Ingestion:	Corrosive, abdominal pain or nausea.
Long Term Exposure:	May cause pulmonary oedema, lung fibrosis.

Atimony is present in low quantities in the stick or ingot. In its present form it is unlikely to be considered as hazardous. However, when melted fumes may be given off which are considered hazardous. Antimony will be present in any dross dusts and may be ingested or inhaled. Antimony will react with concentrated acids to form Stibine, which is highly toxic.

4. FIRST AID MEASURES

Immediate medical attention:	Yes
Professional assistance from physician required?	Yes
Inhalation:	Bring subject into fresh air.
Skin Contact:	Wash with soap and water.
Eye Contact:	Flush with running tap water for at least 15 minutes.
Ingestion:	Do not induce vomiting, seek medical advice.

5. FIRE-FIGHTING MEASURES

The ingots or sticks are not considered flammable, however in the event of a fire affecting the material the following measures should be taken.

Suitable extinguishing media:	Dry foam, sand, CO2.
Un-suitable media:	Never use water near molten metal.
Required special protective equipment:	N/a

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	N/a
Methods of Cleaning:	Sweep or pick up.
Environmental Precautions:	Keep in dry location away from concentrated acids.

7. HANDLING & STORAGE

Handling:	Do not inhale vapour/fumes during soldering. Do not inhale and avoid contact with drosses. Eating, smoking and drinking should be prohibited on shop floor areas likely to be contaminated with Lead. Good personal hygiene must be maintained at all times.
Storage:	Scrap dross disposed in closed containers.

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.

MMX2 Casting Alloy

8. EXPOSURE CONTROLS

Take measures to prevent:	Inhalation of fumes/vapours.
Exposure to control limits:	-
Respiratory protection:	To be worn to avoid inhaling vapours/fumes during soldering.
Hand Protection:	Protective gloves to be worn
Eye Protection:	Goggles or visor to be worn to protect against molten metals.
Skin Protection:	Gloves and overalls to be worn.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Stick/ingot
Odour:	-
Colour:	Grey
Melting Range:	181°C - 220°C
Boiling Point/range:	-
Flash Point:	-
Autoflammability:	-
Density:	7.35 g/cc
Explosion Limits:	-
Viscosity:	-
Solubility in water:	-
Tap Density:	-
Vapour Pressure:	-

10. STABILITY & REACTIVITY

Conditions to avoid:	None
Materials to avoid:	Water and acids when metal molten.
Hazardous decomposition products:	In contact with concentrated acids, toxic gases may be given off.

11. TOXICOLOGICAL INFORMATION

Lead poisoning is one of the commonest occupational diseases. Mode of entry is by inhalation, ingestion via food, fingers or tobacco. Lead is a cumulative poison. Lead adversely effects the blood cells. (N.I. Sax, Dangerous Properties of Industrial Materials, 7th Ed)

12. ECOLOGICAL INFORMATION

Mobility:	In the forms sold not considered mobile. Drosses will be considered mobile and capable of effecting the environment.
Persistence and degradability:	All heavy metals are considered persistent.
Aquatic toxicity:	In form sold not applicable. Drosses could be taken up by all aquatic organisms.

MMX2 Casting Alloy

13. DISPOSAL CONSIDERATIONS

Likely residues / waste products:
Safe handling of and residues/waste products:

Waste disposal is subject to a Duty of Care and the Waste Management Licensing Regulations. Drosses will be subject to the Special Waste Regulations.

14. TRANSPORT INFORMATION

Special carriage precautions in carriage:

-

Classification data:

-

UN Number:

-

Proper Shipping Name:

-

IMO - Sea:

-

ICAO - Air:

-

ADR/RID - Road/Rail:

-

Transport Category:

-

Limited Quantity Size:

-

Additional Data:

Not subject to Dangerous Good Regulations, ADR

15. REGULATORY INFORMATION

Supply label information:

Hazard Symbol:

Risk Phrases:

R20/22 - Harmful by inhalation and if swallowed.

R61 - May cause harm to unborn child.

R62 - Possible risk of impaired fertility.

R33 - Danger for cumulative effects.

R50/53 - Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Safety Phrases:

S2 - Keep out of the reach of children.

S61 - Avoid release to the environment.

S60 - This material and its container may be disposed of as hazardous waste.

S45 - In case of accident or if you are unwell seek medical advice immediately. (Show label where possible).

S53 - Avoid exposure.

S13 - Keep away from food, drink and smoke.

S20/21 - When using do not eat, drink or smoke.

S23 - Do not inhale smoke or fumes.

MMX2 Casting Alloy

16. OTHER INFORMATION

- | | |
|--|--|
| a) Training needs: | For further information contact our office. |
| b) Recommended uses and restrictions: | Always handle in accordance with good industrial hygiene and safety practices. |
| c) Further references: | |
| d) Key data sources: | EH40/2001 - Occupational Exposure Limits
CHIP - Chemical (Hazard Information and Packaging for Supply) Regulations.
HSE. (COSHH) - Control of Substance Hazardous to Health Regulations.
CLAW Regulations - Control of Lead at Work Regulation.
HS (G) 122 - Lead Health & Safety Precautions.
EH19 - Antimony - Health & Safety Precautions.
EH 65/23 - Antimony and its compounds. |

The data contained in this Safety Data Sheet has been supplied as required, by the Chemicals (Hazard Identification and Packaging) Regulations 1994, as amended, for the purposes of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

Please ensure that it is passed to the appropriate person in your company, who is capable of acting on the information.

NOTE:

This data sheet does not constitute a user's assessment of workplace risk as required by HSW Act, COSHH, Management of Health and Safety at Work regulations, or other Health & Safety at Work regulations.