



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. : C310
Product Name : Black Patina for Lead

MATERIAL SAFETY DATA SHEET

Section 1 : IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **BLACK PATINA**
Other Names: **Black Patina for Lead**
Recommended Use: Solution to give a black decorative colouring on lead.

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)
R34 Causes burns.
R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrase(s)
S1/2 Keep locked up and out of reach of children.
S23 Do not breathe fumes.
S36 Wear suitable protective clothing.
S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).



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Section 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	Proportion	CAS Number
Copper Sulphate	10–30 gms/litre	7758-98-7
Nitric Acid	40–60 mls/litre	7697-37-2
Silver Nitrate	0–5 gms/litre	7761-88-8

Section 4 : FIRST AID MEASURES

Description of necessary measures according to route of exposure.

Ingestion:	Do not induce vomiting. Wash with water to rinse out mouth. If conscious, give water to drink to dilute material. Transport immediately to hospital without delay.
Eye:	If this product comes in contact with the eyes immediately hold the eyes open and wash continuously for at least 15 minutes with fresh running water. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Transport to hospital or doctor without delay.
Skin:	If product comes in contact with the skin wash with water immediately. Remove ALL contaminated clothing, including footwear.
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 stopped, ensure clear airway and apply resuscitation. Transport to hospital.
Medical Attention and Special Treatment:	Treat symptomatically based on judgement of doctor and individual reactions of patient.

Additional information

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



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Section 5 : FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, Foam, Dry chemical powder and Carbon dioxide.

Hazardous Combustion Products: Non Flammable. Will not burn but may produce toxic fumes.

Special Protective Equipment: Wear full body protective clothing with breathing apparatus.

Additional information Alert Fire Brigade and tell them location and nature of hazard. Prevent, by means available, spillage from entering drains or watercourses. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.

HAZCHEM CODE: 2X

Section 6 : ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Environmental hazard - contain spillage. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or watercourses.

Methods and Materials for Containment and Clean Up Procedures

Small Spills / Leaks: Dilute with water and cover with absorbent material. Place in a labelled container for safe disposal.

Large Spills / Leaks: Stop leak if safe to do so. Wash spill area with detergent and water. If contamination of drains or waterways occurs as a result of the above actions, advise emergency services. After clean up operations, decontaminate and launder all protective clothing

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



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Section 7 : HANDLING AND STORAGE

Precautions for Safe Handling: SUITABLE CONTAINERS:
Glass bottle and plastic bottle.
Check that containers are clearly labelled. Packaging as recommended by manufacturer.

Conditions for Safe Storage: Observe manufacturer's storing and handling recommendations. Store in original containers. Store in a cool, well-ventilated area. Store away from incompatible materials. Keep containers securely sealed. Protect containers against physical damage. Check regularly for spills or leaks.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Chemical Name ES – TWA

Nitric Acid 5.2 mg/m³
Silver (Soluble) 0.01 mg/m³

Biological Limit Values No data available.

Engineering Controls: Observe manufacturer's storing and handling recommendations. Avoid all personal contact. Local exhaust ventilation required. Ensure ready access to eye wash unit and/or safety shower.

Personal Protective Equipment (PPE)

Eye / Face Protection: Wear safety glasses with side shields or chemicals goggles. Contact lenses pose a special hazard: soft lenses may absorb irritants and all lenses concentrate them. Have eyewash unit available.

Skin Protection: Wear PVC gloves, overalls, safety footwear and safety glasses/goggles capable of preventing splashes from entering eyes.

Respiratory Protection: Local exhaust ventilation required. If inhalation risk exists, wear SAA approved respirator or work in fume hood.



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Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Colour:	Blue
Odour:	None
Vapour Pressure:	As water
Vapour Density:	N/A
Boiling Point:	100°C
Melting Point:	N/A
Solubility in Water:	Total
Specific Gravity: (Water = 1)	Approx. 1.0
Flash Point:	N/A
pH:	Very acidic

For Flammable Limits (as a percentage volume in air)

Lower Explosion Limit :	N/A
Upper Explosion Limit :	N/A
Ignition Temperature:	Non combustible. Will not burn but heat may produce toxic fumes.
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 :	Nil
Decomposition Temperature :	N/A

Additional Information

Molecular Weight :	N/A
Solubility :	Total



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Section 10 : STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions of use and storage.
Conditions to Avoid:	Keep container sealed and avoid excess heat.
Incompatible Materials:	Incompatible with metals.
Hazardous Decomposition Products:	May generate hazardous gases when heated to decomposition.
Hazardous Reactions:	No data available.

Section 11 : TOXICOLOGICAL INFORMATION

Toxicity Data:	No data available.
Ingestion:	The material will cause vomiting, irritation or burning to linings of mouth, throat and stomach.
Eye:	Due to its acidity, severe irritation and possibly permanent damage to the eyes.
Skin:	The material is harmful to the skin and is capable of causing burns. Also, can be absorbed into the skin causing blackening.
Inhalation:	The material is irritating to the upper respiratory tract.

Section 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	Toxic to marine organisms and expected to be fatal unless concentration is very low.
Persistence / Degradability:	No data available.
Mobility:	No data available.
Environmental Fate:	No data available.
Bioaccumulative Potential :	No data available.



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Section 13 : DISPOSAL CONSIDERATIONS

Disposal Methods: Recycle wherever possible. Consult manufacturer for recycling options. Otherwise, dispose of in accordance with all Local, State and Federal regulations at an approved waste disposal facility.

Special Precautions for Landfill or Incineration: Bury empty containers at an authorised landfill.

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

Section 15 : REGULATORY INFORMATION

Poison Schedule Number: S6
EPG : 8A1
AICS Name : N/A
NZ Toxic Substance : N/A



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Section 16 : OTHER INFORMATION

Last Revision: 22/01/2013

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