

**GEMCUTS PTY LTD**

Date of Issue 24-10-2019

**SAFETY DATA SHEET  
JEWELLERS GOLD AND SILVER LIQUID SOLDERING FLUX**

IMPORTANT NOTICE: This Safety Data Sheet (SDS) is issued by Gemcuts Pty Ltd in accordance with National Occupational Health and Safety Commission guidelines. The information contained in this document must not be added to, deleted or altered. Gemcuts Pty Ltd will issue a new SDS when there is a change in the product specifications and/or with the National Occupational Health and Safety Commission guidelines/ regulations. Gemcuts Pty Ltd will not accept any responsibility for any changes made to its SDS in content by any other person or organisation.

**CLASSIFICATION OF MATERIAL**

**This material is classed as a hazardous chemical, Non dangerous goods, according to health criteria of Worksafe Australia**

**1. IDENTIFICATION OF THE MATERIAL & SUPPLIER**

<b>Product</b>	Jewellers Gold and Silver Liquid Soldering Flux
<b>Recommended Use</b>	Specialty Chemical Used In Industry For Surface Finishing
<b>Supplier/Importer</b>	Gemcuts Pty Ltd
<b>ABN</b>	43 780 687 841
<b>Manufacturer</b>	Euro Tool Inc.
<b>Address</b>	36A Smith Drive, West Ballina NSW 2478
<b>Telephone Number</b>	02 66911686
<b>Facsimile</b>	N/A
<b>Email</b>	admin@gemcuts.com.au
<b>Emergency Telephone</b>	131126 Poisons Information Centre 0427012014

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### 2. HAZARDS IDENTIFICATION

**2.1 Hazards Classification:** Target Organ Systemic Toxicity - Single Exposure Cat 3

<b>NFPA HAZARD RATING</b>	Fire:(0, none)	Health:(2, slight)	Reactivity: (0, none)
<b>GHS HAZARDS</b>	Fire:(5, minimal)	Health:(3, low)	Reactivity: (4, low)

**2.2 Hazard Category:** Hazardous substance. Non-Dangerous Goods

**H360FD:** May damage fertility. May damage the unborn child.

**H319:** Cause serious eye irritation

**H315:** Causes skin irritation

**H303:** May be harmful if swallowed

**2.3 Precautionary Phrase(s):**

**P201:** Obtain special instructions before use

**P280:** Wear gloves, clothing, eye and face protection

**P264:** Wash thoroughly after handling

**Emergency Overview: If irritation occurs seek medical attention.**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Product Description:** Yellow liquid, odourless

**3.2 Contents**

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Proportion</b>
Boric Acid	10043-35-3	10mg/M3
Borax	1303-96-4	Not established
Ammonium Phosphate	7783-28-0	Not established

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### 4. FIRST AID MEASURES

**For advice, contact a Poisons Information Centre,**

**Phone (Australia) 131 126**

**Inhalation:** Relocate from area with fumes. Seek medical attention if required

**Skin Contact:** Wash with plenty of water and soap if available. Seek medical attention in event of irritation

**Eye Contact:** Flush with water for 15mins. Seek medical attention

**Ingestion:** DO NOT induce vomiting, drink large amounts of water. Seek medical attention

**Seek immediate medical assistance if the following symptoms occur from excessive exposure:**

Inhalation-Nose and throat irritation, headache, dizziness, difficulty breathing, coughing. Ingestion-nausea, vomiting, cramps. Skin-redness, burning, rash, dryness. Eye redness, burning, tearing and blurred vision

**Notes to physician:** Treat symptomatically

### 5. FIRE FIGHTING MEASURES

**5.1** Explosion Hazard: Carbon monoxide, carbon dioxide, boric acid, phosphates.

**5.2** Fire Fighting Advice: Wear Breathing apparatus plus protective gloves in the event of a fire.

**5.3** Suitable Extinguishing Media: Dry chemical.

### 6. ACCIDENTAL RELEASE MEASURES

**Methods and Materials:** Soak up with a suitable absorbent. Wear adequate protection to avoid contact.

**Environment Precautions:** Avoid release to the environment, collect spillage.

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### 7. HANDLING & STORAGE

**7.1 Handling Advice:** Avoid all contact including inhalation. Wear appropriate protective clothing. Use in a well-ventilated area. Wash thoroughly after use.

**7.2 Storage Advice:** Store in a closed corrosive resistant container in a cool dry place. Keep out of reach of children.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Occupational Exposure Limits: ACHIH TLV:**

**Boric Acid** TWA 2mg/m<sup>3</sup>, STEL6mg/m<sup>3</sup>

**Borax** TWA 5mg/m<sup>3</sup>

**Ammonium Phosphate** TWA 10mg/m<sup>3</sup>

**8.2 Engineering Control Measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation.

**8.3 Personal Protective Equipment:**

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES OR FACE SHIELD, GLOVES, APPROVED AIR-PURIFYING RESPIRATOR.

Wear overalls, chemical goggles and impervious gloves. Avoid inhaling fumes. Wear air purifying respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet, Wash contaminated clothing and other protective equipment before storage or re-use.

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### 9. PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Yellow
Odour:	None
Size (millimetres)	Various
Weight (grams)	>125g
Solubility:	Near 100%
Density	1.0
Flash Point (°C):	Not Established
Boiling Point (°C)	100°C

### 10. STABILITY & REACTIVITY

**Chemical Stability:** Stable

**Conditions to Avoid:** None

**Hazardous Polymerization:** WILL NOT OCCUR

**Incompatible Materials:** Strong Bases and acids, oxidizers, sulphides, halogens.

**Hazardous Decomposition By-product:** Carbon monoxide. Carbon dioxide, boric acid, phosphates.

### 11. TOXICOLOGY INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Ingestion:** Digestive tract irritation

**Eye Contact:** Irritation

**Skin Contact:** Irritation

**Inhalation:** Respiratory tract irritation, Gross or repeated inhalation may cause asthma like condition.

**Long Term Effects:** Chronic exposure may result in respiratory tract and kidney effects. Not determined to be a carcinogen. Always limit exposure as a precaution

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### 12. ECOLOGICAL INFORMATION

No ecological problems are to be expected when handled with care.  
No Bioaccumulation is to be expected.

### 13 DISPOSAL CONSIDERATIONS

Return container to be re-used if possible  
Puncture container if cannot be re-used with the same product or cleaned sufficiently enough to prevent cross contamination.  
DO NOT allow wash water to re-enter drains. Collect wash water for treatment if possible.  
If in doubt contact the local authority for recycling options

### 14. TRANSPORT INFORMATION

14.1 **Road and Rail Transport:** Not Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail

14.2 **Marine Transport:** Not Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

14.3 **Air Transport:** Not Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

### 15. REGULATORY INFORMATION

**Boric acid (10043-35-3), Borax (1303-96-4), Ammonium Phosphate (7783-28-0):**

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.  
Australian Inventory for Chemical Substances.

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### 16. OTHER INFORMATION

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Gemcuts Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Gemcuts Pty Ltd at the contact details on page 1.

Gemcuts Pty Ltd responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.