

Product Name	Soft Soldering Flux x 250ml Jar
Part Number	FLUX801250
SDS Document Reference Version Number	SDS_Bossweld_Solder_Flow_801_V1.0_110419
Issue Date	11 th April 2019

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER**1.1 PRODUCT IDENTIFIER:**

PRODUCT NAME: Solder Flow 801
PRODUCT CODES: FLUX801250
SYNONYMS: SOFT SOLDERING FLUX

1.2 USES AND USES ADVISED AGAINST

USES: A flux for the soldering of most metals except aluminium, magnesium and die cast.

1.3 DETAILS OF THE SUPPLIER OF THE PRODUCT

SUPPLIER NAME: Dynaweld Industrial Supplies Pty Ltd
ADDRESS: Building 2, 10 Jessica Place, Prestons NSW 2170
PHONE: +61 2 8761 6500
FAX: +61 2 9383 8702
Email: sales@dynaweld.com.au
WEBSITE: <http://www.dynaweld.com.au/>

1.4 EMERGENCY TELEPHONE NUMBER(S)

EMERGENCY PHONE: +61 2 8761 6500 (Australia)

SECTION 2: HAZARDS IDENTIFICATION**2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

This product is a mixture. Some of its ingredients make it Hazardous according to the criteria of the Australian Safety and Compensation Council (ASCC)

Classified as Dangerous Goods according to the criteria of the Australian Dangerous Goods code: Class 8 – Corrosive liquid

GHS classification(s): Acute Toxicity – category 3 & 4
Skin Corrosion – category 1A & 1B
Hazardous to the aquatic environment (acute) - category 1
Hazardous to the aquatic environment (chronic) - category 1
Gas under pressure
Eye Irritation - category 2A

2.2 LABEL ELEMENTS

Signal word Danger

Pictogram(s)



Hazard Statement(s)

H302 Harmful if swallowed

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- H314 Causes severe skin burns and eye damage
- H410 Very toxic to aquatic life with long lasting effects
- H331 Toxic if inhaled
- H319 Causes serious eye irritation

Prevention Statement(s)

- P264 Wash affected area thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P260 Do not breathe dusts or mists
- P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.
Manufacturer/supplier or the competent authority to specify applicable conditions.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response Statement(s)

- P301 + P312 IF SWALLOWED: Immediately call a Poison Information Centre 13 11 26 (Australia) or doctor/physician.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P363 Wash contaminated clothing before reuse.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P310+ P311 Immediately call a POISON CENTER or doctor/physician.
- P321 No specific supplementary first aid instruction provided by supplier
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.

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Storage Statement(s)

- P405 Store locked up
- P403 + P233 Store in a well ventilated place. Keep container tightly closed

Disposal Statement(s)

- P501 Dispose of contents/container in accordance with local/regional/national/international Regulations

2.3 OTHER HAZARDS

No other information provided

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 SUBSTANCES/MIXTURES**

Ingredient(s)	CAS Number	% (Weight)
Hydrochloric Acid	7647-01-0	< 15%
Zinc Chloride	7646-85-7	20 – 45%
Ingredients determined not to be hazardous	N/A	> 50%

SECTION 4: FIRST AID MEASURES**4.1 DESCRIPTION OF FIRST AID MEASURES**

- Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Seek immediate medical assistance and contact the nearest Poisons Information Centre 13 11 26 (Australia)
- Eyes:** Wash with copious amounts of water for 15 minutes. As a precaution seek medical advice. Take special care if exposed person is wearing contact lenses. Removal of contact lenses after an eye injury should only be undertaken by a skilled person.
- Skin:** Immediately remove contaminated clothing and wash before reusing. Rinse skin with water/shower. If irritation occurs or you feel unwell seek medical advice
- Inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. For all except minor effects, seek medical attention.

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First Aid Facilities: No information provided.

Advice to Doctor: Treat symptomatically and as for Fluorides/Borates exposure.
Contact Poisons Information Centre 13 11 26 (Australia)

4.2 Most important symptoms and effects, both acute and delayed

- Harmful if swallowed
- Causes severe skin burns and eye damage
- Toxic if inhaled
- Causes serious eye irritation

4.3 Immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Product is non flammable and non combustible

In case of fire use extinguishing medium appropriate to surrounding fire

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Not considered a significant fire risk as not combustible.

May emit Toxic Fumes in a fire notably Zinc Oxide and Hydrogen Chloride

5.3 ADVICE FOR FIREFIGHTERS

Fire fighters should wear self-contained breathing apparatus and suitable protective clothing

5.4 HAZCHEM CODE

2X

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear protective equipment as advised above. Avoid ingestion. Avoid contact with skin and eyes. Avoid walking through spilled product as it can be slippery when spilt. Wash thoroughly after handling.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not let product reach drains and waterways. If the produce does enter the drain or waterway contact the Environmental Protection Authority (EPA) in your state, or your Local Waste Management Authority.

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6.3 METHODS OF CLEANING UP

Contain major spillage and pump into non metallic containers. For minor spillage absorb with sand, earth or other absorbent material. Dispose of according to local/state/federal statutory authorities. Contact a specialist disposal company to dispose of in accordance with "The Hazardous Waste Act". Do not flush away into sewers or other waterways

6.4 REFERENCE TO OTHER SECTIONS

See sections 8 and 13 for exposure controls and disposal.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Overalls, goggles, gloves and dust mask are recommended. Wash contaminated equipment before reusing. Avoid ingestion. Always wash hands before smoking, eating, drinking or going to the toilet. Ensure and eye bath and safety shower are available and ready for use.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING AND INCOMPATIBILITIES

Ingredients are Scheduled Poison S6. Store, maintain and use according to the relevant regulations. Classified as Dangerous Goods as per the Australian Code for the Transportation of Goods by road and Rail (ADG Code) Classified as Dangerous Goods according to the criteria of the Australian Dangerous Goods code: Class 8 – Corrosive Liquid

Stow away from food stuffs.

Store in cool, dry place and keep containers closed and well labelled.

7.3 SPECIFIC END USE(S)

No information provided

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMATERS

Exposure Standards: No value assigned by Australian Safety and Compensation Council (ASCC) for this mixture. However exposure standards as given by ASCC are seen below.

Ingredient	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Hydrogen Chloride	SWA (AUS)	5	7.5	-	-
Zinc Chloride	SWA (AUS)	-	1	-	2

Biological Limits:

No data available for this mixture





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8.2 EXPOSURE CONTROL

Engineering controls:

Ensure ventilation is adequate so as to maintain concentration levels below exposure standards. If using exhaust ventilation a local unit is preferable to a general unit. Avoid breathing fumes given off during brazing operations. When product is not being used, seal containers.

PPE:

Eyes/Face	Wear goggles.	
Hands	Wear PVC or rubber gloves.	
Body	Wear coveralls.	
Respiratory	Where an inhalation risk exists, wear a Class P1 (Particulate) respirator.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to pale straw liquid
Odour	Slight characteristic odour
Odour threshold	Not available
pH	< pH5 (Acidic)
Melting point	Not available
Freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point (solid, gas)	Not relevant
Evaporation rate	Not available
Flammability	Non flammable
Upper flammability or explosive limits	Non flammable
Lower flammability or explosive limits	Non flammable
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Bulk Density	Not available
Specific gravity	1.20 – 1.30
Solubility	Soluble in water

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Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Non flammable
Oxidising properties	Not available

SECTION 10: STABILITY AND REACTIVITY**10.1 REACTIVITY**

Carefully review all information provided in sections 10.2 to 10.6.

10.2 CHEMICAL STABILITY

Product is stable under normal conditions of use, storage and temperature.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available

10.4 CONDITIONS TO AVOID

Avoid heat, sparks, open flames and other ignition sources.

10.5 INCOMPATIBLE MATERIALS

Avoid contact with aluminium, magnesium, die cast materials. Store in plastic containers, avoid contact with metallic containers.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No data available

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 INFORMATION ON TOXICOLOGY EFFECTS**

Acute toxicity: Information available for this product
Based on available data, the classification criteria are not met.

Information available for the ingredient

Ingredient	Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)
Hydrogen Chloride	350mg/kg (rat)	-	-
Zinc Chloride	>900mg/kg (rat)	-	-

Ingestion: Corrosive if swallowed, may burn mouth, gullet and stomach may also cause irritation

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Skin corrosion/irritation: Corrosive may result in burns, irritation, redness, pain and rash

Eye damage/irritation: Corrosive may cause severe damage

Inhalation: May cause irritation and burns of the respiratory tract. Symptoms may include sore throat, shortness of breath, headaches and nausea

Germ cell mutagenicity: Insufficient data available to classify as a mutagen

Carcinogenicity: Insufficient data available to classify as a carcinogen.

STOT- single exposure: Over exposure may result in mucous membrane irritation of the respiratory tract, coughing, breathing difficulties and nasal inflammation.

STOT-repeated exposure: Not classified as causing organ damage from repeated exposure.

Aspiration hazard: Not classified as causing aspiration.

Chronic toxicity: No data available

Since this product in a mixture no specific data is available. However, it is considered that it may be toxic if swallowed. Symptoms of Fluoride overexposure may include salivation, nausea, vomiting, abdominal pain, fever and laboured breathing. This is not considered relevant to normal industrial use, but it is emphasised in the need for care in handling and use of the product.

SECTION 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

No data available for this specific mixture

Ingredient	Marine Animal Tested	Duration of Test	Inhalation Toxicity (LC50)
Hydrogen Chloride	Mysid Shrimp	(96h)	0.880mg/l
Zinc Chloride	Shore Crab	(48h)	240mg/l

Zinc Chloride levels are very toxic to aquatic life.

12.2 PERSISTENCE AND DEGRADABILITY

No information provided.

12.3 BIOACCUMULATIVE POTENTIAL

No information provided.

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12.4 MOBILITY IS SOIL

No information provided.

12.5 OTHER ADVERSE EFFECTS

Zinc Chloride levels are very toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHOD

Waste Disposal Method: Wear protective equipment as advised above. Avoid ingestion. Avoid contact with skin and eyes. Avoid walking through spilled product as it can be slippery when spilt. Wash thoroughly after handling.
Do not let product reach drains and waterways. If the produce does enter the drain or waterway contact the Environmental Protection Authority (EPA) in your state, or your Local Waste Management Authority.
Contain major spillage and pump into non metallic containers. For minor spillage absorb with sand, earth or other absorbent material. Dispose of according to local/state/federal statutory authorities. Contact a specialist disposal company to dispose of in accordance with "The Hazardous Waste Act". Do not flush away into sewers or other waterways

Legislation Dispose of according to local/state/federal statutory authorities.

SECTION 14: TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	1760	1760	1760
14.2 Proper Shipping Name	Corrosive Liquid (contains Zinc Chloride)	Corrosive Liquid (contains Zinc Chloride)	Corrosive Liquid (contains Zinc Chloride)
14.3 Transport hazard class	8	8	8
14.4 Packing Group	2	2	2

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14.5 Environmental hazards for Transport Purposes	No information provided	No information provided	No information provided
14.6 Special Precautions for user	Corrosive	Corrosive	
14.7 Additional Information: Poisons schedule: EPG:	S6 37 toxic and or corrosive substances. Non combustible	S6 37 toxic and or corrosive substances. Non combustible	S6 37 toxic and or corrosive substances. Non combustible
14.8 Hazchem or Emergency Action Code	2X	2X	2X

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule	This product has been allocated the poison schedule number of S6 using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Classifications	Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labeling of Chemicals. The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].
Hazard codes	Corrosive
Inventory listing(s) -	AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt

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SECTION 16: OTHER INFORMATION**Additional information**

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

- ACGIH- American Conference of Governmental Industrial Hygienists
- CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds
- CNS - Central Nervous System
- EC No.- European Community Number
- EMS - Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
- GHS - Globally Harmonized System
- GTEPG - Group Text Emergency Procedure Guide
- IARC - International Agency for Research on Cancer
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LD50 - Lethal Dose, 50% / Median Lethal Dose
- mg/m³ Milligrams per Cubic Metre
- OEL - Occupational Exposure Limit
- pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
- ppm - Parts Per Million
- STEL - Short-Term Exposure Limit
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- SUSMP - Standard for the Uniform Scheduling of Medicines and Poisons
- SWA - Safe Work Australia
- TLV - Threshold Limit Value
- TWA - Time Weighted Average

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Dynaweld Industrial Supplies Pty Ltd requires that all customers read this product safety data sheet carefully so as to be informed about the risks implied in the use of the product, and provide any person involved with a copy of the same and/or adequate training on the use of the product.

While Dynaweld Industrial Supplies Pty Ltd has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Dynaweld Industrial Supplies Pty Ltd accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

END OF SAFETY DATA SHEET