SAFETY DATA SHEET

EVERFLUX® - Water Soluble Soldering Flux

In compliance with 'OSHA quick card' system and numbering

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Product name – EVERFLUX®

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses – Soldering of metals
Uses advised against – Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Distributor
Delta Q Inc.
1851 Dawns Way
Fullerton
California, USA
CA92831
Tel – 714-879-06227
Fax – 714-879-0623
sales@deltaqinc.com

1.4. Emergency telephone number

America's Poisons Centers
Tel: 1-800-222-1222 - https://poisoncenters.org/.
See section 4 First Aid Measures

Manufacturer: Wiseman Industries Ltd,
info@wisemanind.com
www.wisemanind.com
Tel: (0)1277 633200 / Mon – Fri 09:00 – 17:00

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture (EC) No 1272/2008 (CLP)

Physical: Not classified
Human Health: Not classified
Environmental Effects: Not classified

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 CLP

Hazard Pictogram: Not applicable
Signal Word (s): Not applicable
Hazard statement (s): Does not meet classification requirements.

Precautionary statement:
P102 Keep out of reach of children.
P314 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
P280 Wear protective gloves/protective clothing/eye protection/face protection if using through high pressure equipment.

Response:
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301 + P330 + P331)
IF ON SKIN; Wash with plenty of water. (P302 + P352)
IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. (P304 + P340)
IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338).

2.3 Other hazards

Not classified as PBT/vPvB by current EU criteria.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance type Not applicable

3.2. Mixtures

Product/substance	Identifiers	Classification	Threshold Limit Value
Emulsifying oils	:	Not classified	
Surfactants < 5% w/w		Not classified	
Soluble waxes		Not classified	
White Oils		Not classified	
Inhibitors < 2% w/w			
Zinc Chloride	CAS-No: 7646-85-7 EC-No: 231-592-0 REACH Registration No:01-2119472431-44-XXXX	Not classified	TLV (units) 1 mg/m^3
Ammonium Chloride	CAS-No: 12125-02-9 EC-No: 235-186-4 REACH Registration No: 01-2119487950-27	Not classified	TLV (units) 10 mg/m^3

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measure

Inhalation: Remove to fresh air. If recovery is not immediate call doctor at once.
Ingestion: DO NOT INDUCE VOMITING. Drink Bicarbonate of Soda in water/milk/Milk of Magnesia or Washing Soda in water. Call Doctor immediately.
Skin contact: Contact should be avoided. Prolonged or repeated contact with the skin can inflame, irritate and burn the skin. In case of skin contact, immediate washing with plenty of soap and water is recommended.
Eye contact: Contact should be avoided. If this occurs, irrigate for at least 15 minutes under running cold tap and seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

General information
In all cases seek medical attention.

Inhalation: None in normal event.
Ingestion: May burn mouth and cause gastrointestinal inflammation.
Skin contact: May irritate very sensitive skin.
Eye contact: May cause irritation and inflammation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Bring Safety Data Sheet or the product label.

SECTION 5: FIREFIGHTING MEASURES

General: This product is water based and would not support combustion.

5.1. Extinguishing media

Extinguishing media:
Water spray, Dry powder, Foam, Carbon dioxide. Use fire-extinguishing media appropriate for surrounding materials. Keep containers cool by spraying with water.

Unsuitable extinguishing media:
See Extinguishing media above.

5.2. Special hazards arising from the substance or mixture

General: This product is water based and would not support combustion.

Hazardous combustion products: Not applicable
Unusual Fire & Explosion Hazards: Not applicable
Specific hazards: Not applicable.

5.3. Advice for firefighters

Special Fire Fighting Procedures
Avoid breathing fire vapours. Move container from fire area if it can be done without risk.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Exercise caution, area of spillage may be slippery. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Avoid discharge to lake, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

In the event of accidental spillage mop up bulk and dilute remainder to foul drain with water. Treat large spillages as industrial waste.

6.4. Reference to other sections

For further information, see section 13.

Protective equipment for fire-fighters
As per any fire, self-contained breathing apparatus and full protective clothing must be worn.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Ensure good ventilation of work area. Wear personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers and protect from extremes of temperature. Do not mix with any other material other than water as directed.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational Exposure Limit

OEL TWA [1]	NA.
OEL TWA [2]	NA.

8.2. Exposure controls

Protective equipment
- Eye Protection: Safety goggles or face shield should be worn.
- Gloves: Neoprene or nitrile rubber gloves
- Skin protection: Normal work wear protective clothing should worn. A barrier cream for hands is recommended. Use WISEMAN's BOFANS barrier cream.

Process conditions
Provide eyewash, quick drench.

Engineering measures
Ensure sufficient ventilation.

Respiratory equipment
No respiratory protection needed under normal conditions of use.

Hand protection
A barrier cream for hands is recommended. Use WISEMAN's BOFANS barrier cream.

Eye protection
Use approved safety goggles or face shield.

Other Protection
Wear appropriate clothing.

Hygiene measures
Wash hands after handling. Wash promptly if skin becomes wet or contaminated. Wash contaminated clothing before reuse. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Paste
Colour	White
Odour	None
Odour threshold	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flammability	Does not support Combustion
Explosive limits	Not available
Flashpoint	215°C
Auto Ignition Temperature (°C)	Not available
Decomposition temperature (°C)	Not available
pH	Not available
Viscosity, kinematic	Not available
Solubility	Soluble in water
Partition Coefficient (N-Octanol/Water)	Not available
Density	Not available
Vapour pressure at 50°C	Not available
Relative density	Not available
Oxidising properties	Not available

9.2. Other information
None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
The product is stable under normal conditions.

10.2. Chemical stability
Stable under the prescribed storage conditions and when used as recommended.

10.3. Possibility of hazardous reactions
Not known.

10.4. Conditions to avoid
No additional information available.

10.5. Incompatible materials
No additional information available.

10.6. Hazardous decomposition products
No additional information available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Acute Toxicity (Oral LD50)	Not classified
Acute Toxicity (Dermal LD50)	Not classified
Acute Toxicity (Inhalation LC50)	Not classified

Skin Corrosion/Irritation:
Prolonged contact will inflame, irritate and burn the skin.

Serious eye damage/irritation:
Irritant and will cause inflammation.

Respiratory sensitisation:
If the soldering temperature exceeds 400°C, Zinc Chloride fumes may be evolved which can cause irritation to the respiratory system.

Germ cell mutagenicity:
Not classified

Carcinogenicity:
Not classified

Reproductive Toxicity:
Not classified

STOT - Single exposure:
Not classified

STOT - Repeated exposure:
Not classified

Aspiration hazard:
Not classified

11.2. Information on other hazards
Ingestion may burn the mouth and cause gastrointestinal inflammation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Large quantities of this product should not be allowed to enter drains or water course.

12.1. Toxicity

Acute Toxicity - Fish
LC50 96 hours > 16 mg/l Lepomis macrochirus (Bluegill)
Not classified

Acute Toxicity - Aquatic Invertebrates
EC50 48 hours > 100 mg/l Daphnia magna
Not classified

Acute Toxicity - Aquatic Plants
EC50 72 hours > 100 mg/l Desmodesmus subspicatus
Not classified

Acute Toxicity - Microorganisms
NOEC 21 days 88 mg/l total bacteria
Not classified

Chronic Toxicity - Fish Early life Stage
NOEC 65 days 0.025 mg/l Jordanella floridae
Not classified

Chronic Toxicity - Aquatic Invertebrates
NOEC 35 days 0.15 mg/l Tanytarsus dissimilis
Not classified

12.2. Persistence and degradability
Degradability
Water Soluble.

12.3. Bioaccumulative potential

Bioaccumulative potential - Will not bio-accumulate.
Partition coefficient
NA.

12.4. Mobility in soil
NA.

12.5. Results of PBT and vPvB assessment
Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects
None known

SECTION 13: DISPOSAL CONSIDERATIONS

General information
Containers may be treated as domestic waste.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	Not classified
UN No. (IMDG)	Not classified
UN No. (ICAO)	Not classified

14.2. UN proper shipping name

Proper Shipping Name	Not classified

14.3. Transport hazard class(es)

ADR/RID/ADN	Not classified
ADR/RID/ADN Class	Not classified
ADR Label No	Not classified
IMDG Class	Not classified
ICAO Class/Division	Not classified
Transport Labels	Not classified

14.4. Packing group

ADR/RID/ADN Packing group	Not classified
IMDG Packing group	Not classified
ICAO Packing group	Not classified

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant: No.

14.6. Special precautions for user

EmS	Not classified
Emergency Action Code	Not classified
Hazard No. (ADR)	Not classified

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant

SECTION 15: REGULATORY INFORMATION

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

Restrictions for application: People under the age of 18 shall not be exposed to this product
Demand for specific education: No specific requirements
SEVESO – Categories/ dangerous substances: No
Sources: The Management of Health and Safety at Work Regulations 1999.
Regulation (EC) No 648/2004 on detergents as retained and amended in UK Law.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended by UK Law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging substances and mixtures (CLP) as retained and amended in UK Law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK Law.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE: Acute Toxicity Estimate
CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272.2008]
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level
EC: European Community
EmS: Emergency Schedules
EC50: Half maximal effect concentration
IATA: International Air
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
LC50: Lethal Concentration to 50% of a test population
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. (“Marpol”= marine pollution)
OECD: Organisation for Economic Co-operation and Development
PBT: Persistent, Bioaccumulative and Toxic
NOEC: No Observed Effect Concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No1907/2006
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail
RRN: REACH Registration Number
STEL: Short Term Exposure Limit
STOT-RE: Specific Target Organ Toxicity – Repeated Exposure
STOT-SE: Specific Target Organ Toxicity – Single Exposure
STP: Sewerage Treatment Plant
TWA: Time Weighted Average
UN: United Nations
VOC: Volatile Organic Compound
vPvB:Very Persistent and Very Bioaccumulative

Further Product Notes:
EVERFLUX®, is WRAS approved product
Approved by IAPMO Research and Test Laboratories.
It complies with;

1) Uniform Plumbing Code UPC®
2) International Plumbing Code in compliance with Standard ASTM B-813 2016

EVERFLUX® meets Standard Specification for Liquid & Paste Fluxes for Soldering of Copper and Copper Alloy Tube ASTM B813-16.

EVERFLUX® in meeting with the State of California's Health & Safety Requirements 'California Safe Drinking Water & Toxic Enforcement Act 1986', has no chemicals listed under Prop 65, complying with the State of California.

Hazard Statements in full: NA.

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Safety Data Sheet Status Approved.

Manufacturers Disclaimer
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