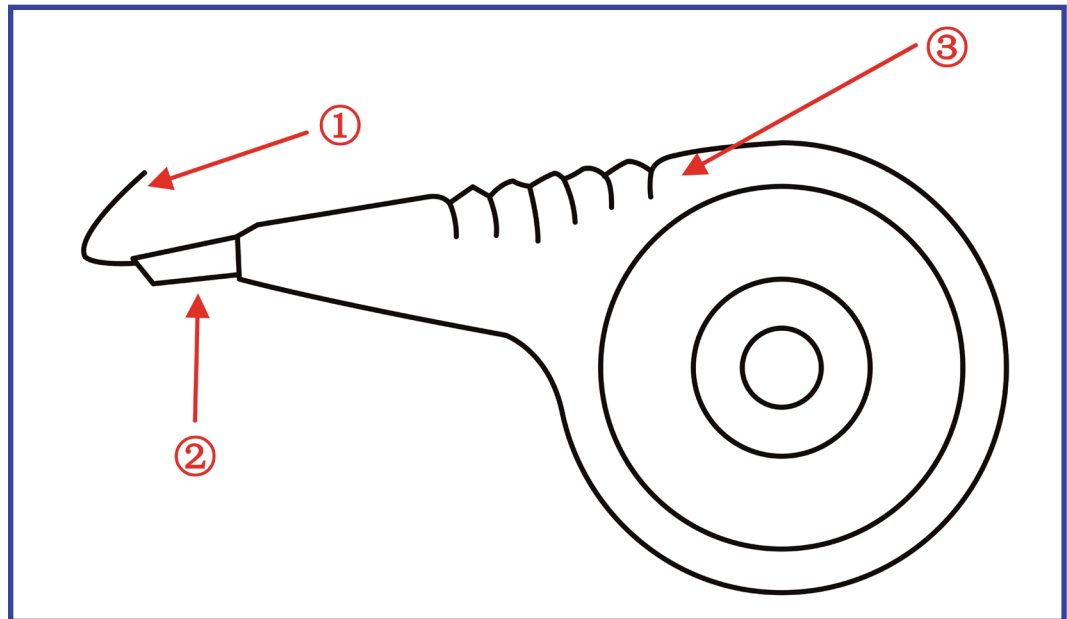


AUSMAN DESOLDERING WICK

AUSMAN ENTLÖTSAUGLITZE



After the development of the chem-wick and the no clean flux formula years ago, the desoldering wick has not been changed anymore. JAMA and AREXX have developed a ergonomic dispenser to keep the desoldering braid. This new ergonomic dispenser is much more user friendly than the regular dispenser. Also there is less braid waste (1), which has positive advantages for our environment.

The ABS holder (3) and the metal tip (2) of the dispenser are non magnetic and ESD free. The no clean flux formula implies that not only the solder will be absorbed but also the flux.

Nach der Entwicklung der "chem-wick"-Entlötlitze und die "no clean"-Flussmittel vor einigen Jahren haben sich die Entlötlitzen kaum geändert. JAMA und AREXX haben einen ergonomischen Dispenser als Behälter für die Entlötlitze entwickelt. Der neue, ergonomische Dispenser ist benutzerfreundlicher als der standard-Dispenser. Zur Vermeidung von Umweltschäden wurde auch die Abfallmenge an Entlötlitze (1) verringert. Der ABS-Behälter (3) und die Metallspitze (2) des Dispensers werden aus nicht magnetischem Material gefertigt und sind elektrostatisch geschützt. Das "no-clean"-Attribut für das Flussmittel bedeutet, dass die Entlötlitze nicht nur das Lötzinn, sondern auch das Flussmittel absorbiert.

Technical specifications:

Free oxygen copper braid
 Free washing no clean formula Flux
 ESD FREE ERGONOMIC HOUSING
 Braid length 2 meter
 Braid width 1.7mm or 2.6mm

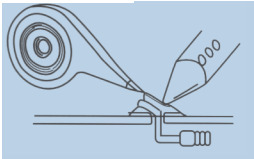
Technische Spezifikationen:

Entlötlitze aus reinem Kupfer
 "noclean"-Flussmittel, das ein Waschen überflüssig macht.
 ESD-FREIER, ERGONOMISCHER BEHÄLTER
 Entlötlitze-Länge 2 Meter
 Entlötlitze-Breite 1.7mm oder 2.6mm

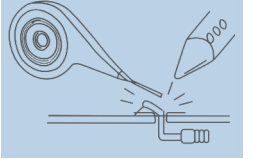
AUSMAN DESOLDERING WICK

AUSMAN ENTLÖTSAUGLITZE

Desoldering *When you made a soldering failure, you can easily remove the mistaken component with wick.*

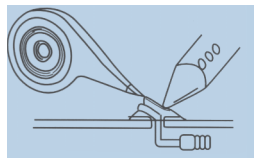


Put the soldering wick on the solder path. Heat the wick and the path with the soldering iron and the copper braid of the wick will suck the solder.

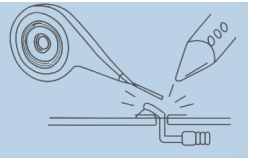


When the wick removed all the solder from the path, pull back the wick and the soldering iron simultaneously.

Entlöten *Wenn wir beim Löten einen Fehler gemacht haben, können wir den Lötfehler mit Entlötsauglitze reparieren.*



Lege die Entlötsauglitze über der Lötverbindung. Erhitze die Litze und die Lötverbindung.



Ziehe den LötKolben und die Litze zurück sobald die Litze das Lötzinn aufgesaugt hat.

SAFETY DATA SHEET

Composition:	Copper and no clean Flux
Hazard classification:	R43 (EU directive 67/548/EEC/1999/45/EC No. 453/2010 -)
Human Health hazards:	May cause sensation by skin contact
First aid;	In case of irritation by skin contact clean the skin with water and soap. In case off contact with the eyes flush the eyes with water at least for 15 minutes and get medical attention.
Usage;	Only use the wick in a ventilated area and avoid contact with skin and eyes.
Fire and explosion;	Not considered as a product presenting such risk
Warning;	KEEP OUT OF THE REACH OF CHILDREN!

Sicherheit-Datenblatt

Zusammensetzung:	Kupferlitzendraht mit Harzbeschichtung.
Gefahrengutklassifikation:	R43 (EU-Richtlinie 67/548/EEC/1999/45/EC No. 453/2010)
Risiken für die Gesundheit:	Reizt die Augen, Atmungsorgane und die Haut.
Erste Hilfe-Maßnahmen:	Bei Reizungen nach einem Hautkontakt bitte die Haut mit Wasser und Seife reinigen. Die Augen sofort für mindestens 15 Minuten mit viel Wasser ausspülen. Danach sofort den Arzt aufsuchen.
Anwendung:	Bitte das Band nur in einem gelüftetem Bereich benutzen und Haut- bzw. Augenberührung vermeiden.
Feuer- und Explosionsgefahr:	Dieses Produkt gehört nicht zur Kategorie der feuer- und explosionsgefährdeten Materialien
Warnung:	HEBEN SIE DIESES PRODUKT AUßER REICHWEITE VON KINDERN AUF!



AREXX SAFETY DATA SHEET

AUSMAN DESOLDERING WICK AUSMAN ENTLÖTSAUGLITZE

AREXX AW-100 and AW-200; Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 -Europe

SECTION 1

1.1 Product identifier

Product name;	AUSMAN WICK
Product code;	AW-100 and AW-200
Product description;	Desoldering braid (litze)
Product type;	Solid
Other means of identification;	AUSMAN, DESOLDER WICK, ENTLÖTSAUGLITZE AW100, AW200

1.2 Relevant identified uses of substance or mixture and uses advised against.
Not applicable.

1.3 Details of the supplier of the safety data sheet

Manufacturer

JAMA Products development Co.,LTD
1F., No.416, HOSOON Road
TAICHUNG 406
TAIWAN R.O.C.

Distributor

AREXX Engineering
Nervistraat 16
8013 RS Zwolle
The Net herlands
Email: info@arexx.nl
Tel: +31 38454 2028
FAX: +31 38 4524482

EMERGENCY HEALTH INFORMATION:

Contact Local Doctor or Hospital

AREXX AW-100 and AW-200; Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 -Europe

SECTION 2

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown

toxicity: 100 percent of the mixture consists of component(s) of unknown toxicity

Ingredients of unknown

ecotoxicity: Contains 5% of components with unknown hazards to the aquatic environment

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: R42/43

Physical/chemical hazards: FUMES MAY BE HARMFUL May be harmful by inhalation after often repeated: Slightly hazardous by exposure: Skin contact irritant

Human health hazards: May cause sensitisation by inhalation and skin contact, sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.

Caution: exposure to fumes from this material may cause certain sensitive individuals to develop eczema and/or occupational asthma.

Environmental hazards: Can be toxic to aquatic organisms.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms: None

Signal word : None

Hazard statements : None

Precautionary statements

Prevention : Avoid release to the environment.

Response : Collect spillage.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements: Keep out of the reach of children.

Avoid contact with eyes.

Annex XVII - Restrictions

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:

Not applicable.

AREXX AW-100 and AW-200; Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 -Europe

Special packaging requirements

Containers to be fitted with child-resistant fastenings: Not applicable.

Tactile warning of danger: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification: May cause allergic reactions in certain individuals.

SECTION 3

3.2 Mixtures: Mixture

Ingredient name	Identifiers	%	Classification		type
			67/548/EEC	Regulation (EC) 1272/2008 [CLP]	
ROSIN/FLUX	EC 232-475-7	>=2,<10	R43	Skin sens. 1, H317	1,2
COPPER	CAS 8050-09-7 Index 650-015-00-7 EC 231-159-6 CAS 7440-50-8	>=90	N, R50 See section 16 for R-phrases	Aquatic acute 1, H400 Aquatic chronic 1, H410 See section 16 for H statement	1

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

TYPE

1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4

4.1 Description of first aid measures

Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband
Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion:	Do not induce vomiting, rinse mouth with water. If digestive symptoms persist, seek medical advice.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Inhalation :	May cause respiratory irritation. fumes Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the oel.
Ingestion :	Routes of entry not anticipated:
Skin contact :	May cause skin irritation. May cause sensitisation by skin contact.
Eye contact:	May cause eye irritation. fumes

Over-exposure signs/symptoms

Skin contact:	Adverse symptoms may include the following: May cause allergic reactions in certain individuals. - irritation - redness - sensitiser
Ingestion:	No specific data
Inhalation:	Adverse symptoms may include the following: asthma respiratory tract irritation wheezing and breathing difficulties
Eye contact:	Adverse

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.

AREXX AW-100 and AW-200; Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 -Europe

SECTION 5

5.1 Extinguishing media:

Suitable extinguishing media:

Use an extinguishing agent suitable for the fire.

Unsuitable extinguishing media:

None known

Hazards from the substance or mixture:

This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

Decomposition products may include the following materials: metal oxide/oxides. Do not breath combustion product

5.3 Advice for firefighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective actions for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

AREXX AW-100 and AW-200; Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 -Europe

SECTION 6

Personal precautions, protective equipment and emergency procedures

Basic precautions: Uses adequate ventilation, do not inhale the fumes

Means of protection: Consult section 8

6.2 Environmental precautions: Do not dump into water or environment, water polluting material

6.3 Methods and material for containment and cleaning up:

Absorb or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections: See Section 1 for emergency contact information.

See Section 8 for appropriate personal protection equipment.

See Section 13 for additional waste treatment information.

SECTION 7

7.1 Precautions for safe handling and storage

Protective measures : Do not ingest. Avoid contact with eyes, skin and clothing.
Avoid release to the environment

7.2 Conditions for safe storage: Keep in its original package until ready for use.

7.3 Specific end use(s)

Recommendations: Product for professional industrial use

SECTION 8

8.1 Control parameters

Occupational exposure limits: No exposure limit value known.

Recommended monitoring procedures: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents)

8.2 Exposure controls

Appropriate engineering controls: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

AREXX AW-100 and AW-200; Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 -Europe

SECTION 8

Individual protection measures

Respiratory protection: Use good workspace ventilation for soldering and do not breath the fumes
Hand protection: Not necessary in normal use conditions
Eye/face protection: Protective goggles are advised
Skin and body protection: Do not eat or drink during use

SECTION 9

9.1 Information on basic physical and chemical properties

Appearance

Physical state: Solid (Copper)
Odour : wood rosin
pH: Na
Colour : Copper.
Evaporation rate: N

9.2 Other information: No additional information.

SECTION 10

10.1 Reactivity: No specific test data
10.2 Chemical stability: The product is stable.
10.3 Possibility of hazardous reactions: With normal storage and use hazardous reactions will not occur. No specific data.
10.4 Conditions to avoid: No specific data.
10.5 Incompatible materials: No specific data.
10.6 Hazardous decomposition products: Normally hazardous decomposition products should not be produced.

SECTION 11

Information on toxicological effects

Acute toxicity: Na

Irritation/Corrosion

Conclusion/Summary

Skin: May cause sensitisation by skin contact.
Eyes: May cause mild eye irritation.
Respiratory: May cause sensitisation by inhalation.
Inhalation of this material may cause sensitive individuals to develop eczema and/or occupational asthma.

SECTION 12

Ingredient name	Result	Species	Exposure
Copper	Acute EC50 1100 µg/l	Fresh water Aquatic plants - Lemna minor	4 days
	Acute EC50 2.1 µg/l Fresh water	Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling)	48 Hours
	Acute IC50 13 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 Hours
	Acute IC50 5.4 mg/l Marine water	Aquatic plants - Plantae - Exponential growth phase Crustaceans - Amphipoda -Adult fish	72 Hours
	Chronic NOEC 2.5 µg/l Marine water	Algae - Nitzschia closterium -Exponential growth phase Aquatic plants - Ceratophyllum demersum	72 Hours
	Chronic NOEC 0.02 mg/l Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days
	Chronic NOEC 0.8 µg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

12.3 Bioaccumulative potential: Not available.

12.4 Mobility in soil Not available.

Soil/water partition coefficient (KOC):

Mobility: Not available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No known significant effects or critical hazards.

SECTION 13

13.1 Waste treatment methods

Product

Methods of disposal Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Hazardous waste: The classification of the product may meet the criteria for a hazardous waste.

Packaging: Dispose of surplus and recyclable products via a licensed waste disposal contractor.

AREXX AW-100 and AW-200; Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 -Europe

SECTION 14

Transport information: Not available.

SECTION 15

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions Not applicable.

SECTION 16

Other information;

New version December 2016 according to CLP 1272/2008/EC

Recommended use: Industrial use for desoldering electronic components.

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.