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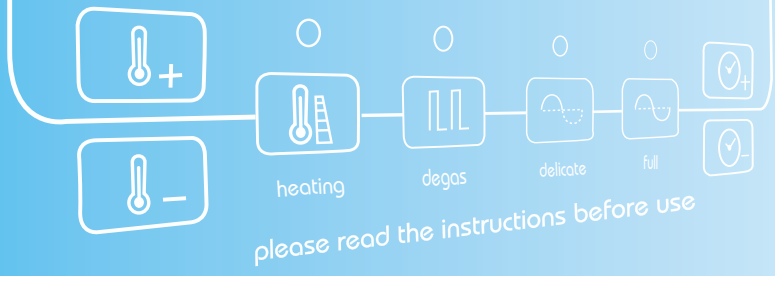
Suppliers of Ultrasonic Cleaners and Solutions

Flux Remover Solution Safety Data Sheet



V1.2

Flux Remover Solution

Part No: US-SO-FLU Solution

Revision Number: 8 2019

A specialist formulation for adding to Ultrasonic baths for removing flux from soldering and even deposits left from water damage. It safely removes contaminants including general soiling, carbon and grease etc. The cleaning process will not damage, corrode or darken metal components. Safe on brass, aluminum and other sensitive metals.

- Safe to use on most sensitive metals.
- Deep cleans removing dirt and oxidation.
- Excellent stain remover.
- Economical to use.
- For professional and amateur use.

Directions

Concentrate is added to water at a rate of 1 part concentrate to 10 parts of water. Operating temperature of bath should be set between 50 - 80 degrees centigrade.

Solutions should be used with deionised, demineralised or distilled water as Calcium carbonate and other impurities in tap water can effect/reduce the cleaning properties of the solutions and produce undesirable side effects such as deposits

Always test before use on new applications.

After cleaning rinse all surfaces thoroughly with clean water. The bath should be changed regularly when the solution becomes dirty.

Other Ultrasonic Solutions Available

There are a variety of ultrasonic solutions available, formulated for specific applications. Correct selection is vital to give optimal performance and prevent an adverse reaction.

Solutions include;

- Jewellery.
- Glass and optical lens.
- General Purpose Degrease.
- Oxidation Remover.
- Sensitive Metals.
- Carburettor and engine parts.

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Compilation date: 26/07/2016

Revision date: 21/08/2019

Revision No: 7

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: ULTRASONIC PCB CLEANER & FLUX REMOVER

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

Use of substance / mixture: PC35: Washing and cleaning products (including solvent based products).

1.3. Details of the supplier of the safety data sheet

Company name: Allendale Ultrasonics
Pindar Road
Hoddesdon
Herts
EN11 0BZ
United Kingdom

Tel: +44 (0) 1992 455925
Fax: +44 (0) 1992 450781
Email: technical@allendale-ultrasonics.co.uk

1.4. Emergency telephone number

Emergency tel: +00 448 706 006 266 NHS DIRECT – 0845 4647 or 111

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: This product has no classification under CLP *

2.2. Label elements

Label elements: This product has no classification under CLP *

2.3. Other hazards

Other hazards: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008*

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

2-BUTOXYETHANOL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-905-0	111-76-2	-	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315	1-10%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. *
Eye contact: Bathe the eye with running water for 15 minutes. *
Ingestion: Wash out mouth with water. *
Inhalation: Consult a doctor. *

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

Skin contact: There may be mild irritation at the site of contact. *
Eye contact: There may be irritation and redness. *
Ingestion: There may be irritation of the throat. *
Inhalation: No symptoms. *
Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire fighters

Advice for fire fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid. *

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous Ingredients
2 – BUTOXYETH ANOL

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	25 ppm	50 ppm	-	-

Workplace exposure limits: **Respirable dust**

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/ fumes / aerosols. Avoid contact with the eyes and skin
Engineering measures:	Ensure there is sufficient ventilation of the area
Respiratory protection:	Not applicable. *
Hand protection:	Protective gloves – Rubber Gloves (EN 374-2 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. The determined penetration times according to EN 374 – part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended
Eye protection:	Tightly fitting safety goggles. Ensure the goggles have the relevant markings on them showing which aspect of EN166 they conform to. Ensure eye bath is to hand
Skin protection:	Protective clothing – ensure they are suitable for working with liquid chemicals

PERSONAL PROTECTION SYMBOL (S)

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Liquid		
Colour:	Blue		
Odour:	Characteristic odour		
Evaporation rate:	No data available		
Oxidising:	No data available		
Solubility in	No data available		
Water:	No data available		
Viscosity:	No data available		
Boiling point/range °C:	No data available	**Melting point/range °C:**	No data available
Flammability limits %:	No data available	**upper:**	No data available
lower:			
Flash point °C	No data available	**Part.coeff. n-octanol/water:**	No data available
Autoflammability °C:	No data available	**Vapour pressure:**	No data available
Relative density:	No data available	**pH**	5.0 - 7.0 *
VOC g/l:	No data available		

9.2. Other information

Other information: No data available.

Reactivity: Stable under recommended transport or storage conditions.

Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

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Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

2-BUTOXYETHANOL

	IVN	RAT	LD50	307	mg/kg
	ORL	MUS	LD50	1230	mg/kg
	ORL	RAT	LD50	470	mg/kg

Toxicity values: No data available

Excluded hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	No hazard: calculated
Acute toxicity (ac. tox. 3)	-	No hazard: calculated
Acute toxicity (ac. tox. 2)	-	No hazard: calculated
Acute toxicity (ac. tox. 1)	-	No hazard: calculated
Skin corrosion/irritation	-	No hazard: calculated
Serious eye damage/irritation	-	No hazard: calculated
Respiratory/skin sensitisation	-	No hazard: calculated
Germ cell mutagenicity	-	No hazard: calculated
Carcinogenicity	-	No hazard: calculated
Reproductive toxicity	-	No hazard: calculated
STOT-single exposure	-	No hazard: calculated
STOT-repeated exposure	-	No hazard: calculated
Aspiration hazard	-	No hazard: calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact. *
Eye contact: There may be irritation and redness. *
Ingestion: There may be irritation of the throat. *
Inhalation: No symptoms. *
Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 4: Transport Information

14.1. UN number

UN number (ADR/RID):	Not Regulated
UN number (IMDG):	Not Regulated
UN number (ICAO):	Not Regulated
UN number (ADN):	Not Regulated

14.2. UN proper shipping name

Proper Shipping name (ADR/RID):	Not Regulated
Proper Shipping name (IMDG):	Not Regulated
Proper Shipping name (ICAO):	Not Regulated
Proper Shipping name (ADN):	Not Regulated

14.3. Transport hazard class (es)

ADR/RID class:	Not Regulated
ADR/RID classification code:	Not Regulated
ADR/RID label:	Not Regulated
IMDG class:	Not Regulated
ICAO class/division:	Not Regulated
ADN class:	Not Regulated

14.4. Packing group

ADR/RID group:	Not Regulated
IMDG group:	Not Regulated
ICAO group:	Not Regulated
ADN group:	Not Regulated

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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Section 16: Other information

Other information: This safety data sheet is prepared according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 * indicates text in the SDS, which has changed since the last revision.

Phrases used in s.2 and s.3:

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Legal disclaimer: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Contact Details

The Allendale Group Ltd
Allendale-Ultrasonics Dept.
Pindar Road
Hoddesdon
Hertfordshire
EN11 0BZ

+44 (0)1992 455925
sales@allendale-ultrasonics.co.uk
www.allendale-ultrasonics.co.uk