MBO (UK) Limited 35S Inorganic Water Washable Liquid Flux TDS/MSDS

1.Supplier:

Head Office Sales Office

MBO (UK) Limited MBO (UK) Limited

Mill End Mill End Standon Standon Ware Ware

Herts SG11 1LR Herts SG11 1LR

Tel: +44(0)1920 823999
Fax: +44(0)1920 823631
Email: info@mbouk.co.uk

Tel: +44(0)1920 823999
Fax: +44(0)1920 823631
Email: info@mbouk.co.uk

2.Composition / Information on Ingredients.

Alloy Ingredients	%	CAS-NO	Hazard	
Zinc Chloride	23-58 *	7646-85-7	R22. Harmful if swallowed. R34. Causes burns. R37. Irritating to the respiratory system. R50/53. Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.	
Ammonium Chloride	4-5 *	12125-02-9	02-9 R22. Harmful if swallowed. R36. Irritating to eyes.	
Hydrochloric Acid	< 0.5 *	7647-01-0	R23. Toxic by inhalation. R35. Causes severe burns.	

^{*} Combined as an aqueous solution ~ 50% water

3. Health Hazards Identification.

3.1.1 Inhalation: Serious damage to the lining of the nose, throat and lungs.

3.1.2 Ingestion: May cause burns in mucous membranes, throat and oesophagus

and stomach.

3.1.3 Skin contact: This substance is corrosive, causes burns.

3.1.4 Eye contact: Causes burns.

3.1.5 Long term exposure effects: Prolonged or repeated skin contact may lead to dermatitis. The

flux may be slightly irritating to the skin and eyes. The fume

produced may cause respiratory irritation.

4. First-aid Measures.

4.1 Inhalation: Remove the casualty from the area of exposure and into fresh

air. Wear protective clothing and breathing apparatus if necessary. If breathing is weak, irregular or has stopped seek

medical attention immediately.

4.2 Ingestion: DO NOT INDUCE VOMITING. If the victim is conscious, give

large amounts of water. Seek medical advice immediately.

4.3 Skin contact: Remove all contaminated clothing and affected areas as soon

as possible, unless stuck to the skin. Drench the effected skin with running water for 10 minutes using a mild soap. If irritation persists repeat the above and seek medical attention immediately.

4.4 Eye contact: Flush eye, including under the eyelids with clean running

water for at least 15 minutes. Remove all chemicals from contact with the victim's eyes immediately. Transfer to hospital

for a detailed eye examination as soon as possible.

5. Fire Fighting Measures.

5.1 Suitable extinguishing media: Not flammable. Water, dry powder, foam and Carbon Dioxide.

5.2 NOT suitable media: Not applicable.

5.3 Fire-fighting equipment: Fire fighters should wear full turn-out equipment with

respiratory equipment.

6. Accidental Releases Measures.

6.1 Personal precautions: Safety glasses, safety goggles. Impervious clothing and/or

gloves. Respiratory protection may be required. Dust mask.

Self contained breathing apparatus.

6.2 Environmental precautions: Do not discharge effluent to drain without prior consent from the

appropriate authority.

6.3 Methods for clean up: Collect / soak up with inert absorbent material (sand, silica gel,

acid binder, sawdust). Dispose in sealed containers in accordance

with appropriate waste regulation.

7. Handling & Storage.

7.1 Storage conditions: Store in tightly closed container.

7.2 Handling Precautions: Avoid use of mild steel containers. Use polyethylene containers.

8. Exposure Limits, Controls and Personal Protection.

8.1 Exposure Limits.

	Workplace Exposure Limit			
Ingredient	Long-term exposure limit (8hour TWA reference period) mg/m³	Short-term exposure limit (15 minute reference period) mg/m ³		
Zinc Chloride	1	2		
Ammonium Chloride	10	20		
Hydrochloric Acid	1ppm	5ppm		

8.2 Controls and Personal Protection.

Eye protection:

Not applicable under normal soldering conditions.

Respiratory protection:

Where concentrations in air may exceed the limits given and engineering controls, work practice or other means of exposure reduction are not practicable or adequate, approved respirators

may be necessary to prevent over exposure by inhalation.

Skin protection:

Not applicable under normal soldering conditions.

9. Physical & Chemical Properties.

Physical-Chemical Data.

9.1 Appearance:

White to light straw liquid.

9.2 Odour:

Not available.

9.3 Melting Point Range:

Not available.

9.4 Boiling Point:

Not available.
Over 200 Degree Centigrade

9.5 Flash Point:9.6 Auto-flammability:

Not applicable.

9.7 Density:

1.51 @ 46%

9.8 Explosion Limits:

Not available.

9.9 Solubility in Water:

Completely soluble.

9.10 pH-Value:

5 @ 10%.

9.11 Viscosity:

Not available.

10.Stability- Reactivity.

10.1 Conditions to avoid:

None - stable.

10.2 Materials to avoid:

Avoid strong alkalis.

10.3 Hazardous Decomposition:

Zinc Chloride or Hydrogen Chloride fumes.

11. Toxicological Information.

Toxicological data:

Unknown.

12. Ecological Information.

12.1 Mobility:

Not available.

12.2 Persistence and degradability.
Biological Oxygen Demand.

Unknown.

Chemical Oxygen Demand.

Not available. Not available.

12.3 Aquatic toxicology.

Known to be toxic to aquatic organisms.

13.Disposal Considerations.

Waste disposal is subject to a Duty of Care and the Waste Management Licensing Regulations and subject to the Hazardous Waste Regulations.

14. Transport Information.

No specific requirements.

15. Regulatory Information / Hazardous Labeling.

15.1 Classification;

ZINC CHLORIDE Xn - Harmful, C - Corrosive, R22, R34, R37, R50/53

N – Dangerous for the environment S26, S45, S51, S24/25, S36/37/39,

S57, S60, S61

AMMONIUM Xn – Harmful, Xi – Irritant R22, R36, S2, S22

CHLORIDE

HYDROCHLORIC T - Toxic, C - Corrosive R23, R35, S(1/2), S9, S26,

ACID S36/37/39, S45

15.2 Risk & Safety Phrases:

ZINC CHLORIDE

R22 Harmful if swallowed.

R34 Causes burns.

R37 Irritating to the respiratory system.

R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the

aquatic environment.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

In case of accident or if you unwell seek medical advice immediately. (Show

label where possible).

S51 Use only in well-ventilated areas. S24/25 Avoid contact with skin and eyes.

S36/37/38 Wear suitable protective clothing, gloves and eye/face protection.

S57 Use appropriate containment to avoid environmental contamination.

This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment.

AMMONIUM CHLORIDE

R22 Harmful if swallowed. R36 Irritating to eyes.

S2 Keep out of reach of children.

S22 Do not breathe dust.

HYDROCHLORIC ACID

R23 Toxic by inhalation. R35 Causes severe burns.

S(1/2) Keep locked up and out of reach of children. S9 Keep container in well ventilated place.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

In case of accident or if you unwell seek medical advice immediately. (Show

label where possible).

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

This information does not constitute the users own assessment of workplace risk as required by H&S legislation.

16. Other Information

16.1 EH40/ 2005

Workplace Exposure Limits.

16.2 CHIP

Chemical (Hazard Information and Packaging for Supply)

Regulations.

16.3 HSE. (COSHH)

Control of Substance Hazardous to Health Regulations.

The information given in this sheet represents the best of our knowledge; it may not be used as a warranty.