

Assembly Technologies International
(DBA American Beauty Tools)

Safety Data Sheet
29 CFR 1910.1200



Section 1: Company and Product Identification

Product Name: Flux (2 oz, 4 oz)

Model Number: CS-FX2 & CS-FX3

Company: American Beauty Tools
1937 Barrett Dr.
Troy, MI 48084
PH: 1-800-550-2510, 1-248-280-2810

Emergency Response: CHEMTREC 24 Hour Emergency Telephone Numbers:
1-(800)-424-9300
+1 703-527-3887

Section 2: Hazards Identification

Hazard Pictograms:

Not classified

Signal Word: Not Applicable

Hazard Category: Acute tox, oral Cat 4
Serious eye damage/eye irritation Cat 2A
Skin corrosion/irritation Cat 2
Specific target organ tox, single exp. Cat 3 (resp irrit)

Hazard Statements: H302: Harmful if swallowed
H319: causes serious eye irritation
H315: Causes skin irritation
H335: May cause respiratory irritation

Precautionary Statements:

Hazards not otherwise classified: Unknown acute toxicity (GHS-US)
0.03 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Ethanolamine hydrochloride	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	2002-24-6	15

ammonium chloride	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319	12125-02-9	9.14
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Section 4: First Aid Measures

General Info: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Notable Exposure symptoms: No significant signs or symptoms indicative of any health hazard are expected to occur.

If ingested: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

If inhaled: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Indication of any immediate medical attention and special treatment needed: All treatments should be based on observed signs and symptoms of distress in the patient

Section 5: Fire Fighting Measures

General Info: Fire hazard : No specific fire or explosion hazard.
Explosion hazard : Product is not explosive.
Reactivity : No dangerous reactions known.

Extinguishing Method / Equipment: Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media : None known.

Hazardous N/A

Decomposition Info:

Advice for firefighters: Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions, For non-emergency personnel

protective equipment and procedures: Protective equipment : Wear suitable protective clothing and gloves. Nitrile gloves. Chemical goggles or safety glasses. In case of inadequate ventilation wear respiratory protection.
Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Wear suitable protective clothing and gloves. Neoprene or nitrile rubber gloves. Chemical goggles or safety glasses. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.
Emergency procedures : Ventilate area.

Containment Equipment and Procedures: Stop the flow of material, if this is without risk. Contain and/or absorb spill with inert material, then place in suitable container.

Cleanup Procedures: Take up in non-combustible absorbent material and shove into container for disposal. On land, sweep or shovel into suitable containers.

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment

Reference to other sections:**Section 7: Handling and Storage****Safe Handling** Do not eat, drink or smoke when using this product. Provide good ventilation in process area to**Precautions:** prevent formation of vapour. Remove all sources of ignition.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

Recommendations for Storage: Keep only in the original container in a cool well ventilated place. Keep container closed when

not in use.

Incompatibilities: Strong oxidizing agents. Strong acids. Strong bases. amines. Acid chlorides, metals. Cyanides and sulfide salts.

Prohibitions on mixed storage : Keep away from incompatible materials.

Section 8: Exposure Control / Personal Protection**General / Engineering Controls:** Provide local exhaust ventilation of closed transfer systems to minimize exposures.**Work Clothing:**

Avoid all unnecessary exposure.

Eye/face protection: Avoid all unnecessary exposure.**Skin Protection:** It is a good industrial hygiene practice to minimize skin contact. Wear suitable gloves. Impermeable protective nitrile gloves.**Respiratory Protection:** In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with

oil/mist cartridges.

Additional Information: Do not eat, drink or smoke when using this product.**Information:**

Substances with Exposure Limits	CAS#	ACGIH-TLV	OSHA-PEL
Regular Soldering Flux Paste	N/A	N/A	N/A
ammonium chloride	12125-02-10	ACGIH TWA (mg/m ³) 10 mg/m ³ ACGIH STEL (mg/m ³) 20 mg/m ³ Remark (ACGIH) Eye & URT irr	N/A
Ethanolamine hydrochloride	2002-24-6	N/A	N/A

Section 9: Physical and Chemical Properties**State:** Liquid/Paste**Melting Point:** Not avail**Freezing Point:** Not avail**Color:** yellowish to white**Boiling Point/Range:** Not Avail**pH** 6.5 - 7

Sp Grav: Not avail	Odor: Faint.	Water Solubility: Soluble in water.
Evaporation rate: No data available	Flash Point: > 204 °C (TOC)	Part. Coeff (n-octanol/water): Not avail
Upper Flam Limits: Not avail	Lower Flam Limits: Not avail	Vapor Pressure: Not avail
VOC Content (lbs/gal): 0%	Viscosity: Not Avail	Autoignition Temp: Not avail

Section 10: Stability and Reactivity

General: No dangerous reactions known.

Stable at ambient temperature and under normal conditions of use.

Hazardous polymerization will not occur.

Conditions to avoid: Contact with incompatible materials. Avoid excessive heat or cold.

Incompatible materials: Strong oxidizing agents. Strong bases. Strong acids. amines. aluminum and other metals. Cyanides and sulfide salts.

Decomposition products: Carbon dioxide. Carbon monoxide. Ammonia. hydrogen chloride. Burning produces irritating, toxic and noxious fumes.

Section 11: Toxicological Information

General Information: Acute toxicity : Not classified

Skin corrosion/irritation : Not classified. (Non-irritating to skin in rabbits.)

Serious eye damage/irritation : Not classified. (Slightly irritant but not relevant for classification)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure): : Not classified

Specific target organ toxicity (repeated exposure): : Not classified

Aspiration hazard : Not classified

Toxicological Information (product): N/A

Likely Routes of Exposure: Skin and eye contact

Toxicological Information (contained substances)

Hazardous substance (name)	LD50 Oral	LD50 Dermal	LC50 Inh	Irritancy:
Regular Soldering Flux Paste	> 5000 mg/kg (rat)	N/A	>20mg/l (vapor)	N/A
ammonium chloride	1410 mg/kg (rat) ATE CLP (oral): 1410.000 mg/kg bodyweight	>2000 mg/kg (rat)	>20 mg/l (vapor)	Eye irritancy, mucous membrane irrit

Carcinogenicity or mutagenicity: N/A

Sensitization: N/A

Other Notes: ammonium chloride

NOAEL (subchronic, oral, animal/male, 90 days) : \geq 580 mg/kg bodyweight 56 days

Section 12: Ecological Information

General information: ammonium chloride

LC50 fish 1: 209 mg/l 96 hv

EC50 Daphnia 1: 101 mg/l 48 h

Aquatic toxicity: Avoid undiluted product to come into sewer or surface water.

Degradation / Mobility info: Not readily biodegradable.
No additional information available.

Bioaccumulative potential: Not established

Section 13: Disposal Information

Product disposal: Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

Container disposal: N/A

Other considerations: No further information.

Section 14: Transport Information

DOT: Not considered a dangerous good for transport regulations

IMO/IMDG: Not considered a dangerous good for transport regulations

IATA: Not considered a dangerous good for transport regulations

OTHER: N/A

TDG: Not considered a dangerous good for transport regulations

Section 15: Regulatory Information

US Federal regulations ammonium chloride: Listed on the United States TSCA (Toxic Substances Control Act) inventory .

TSCA: RQ (Reportable quantity, section 304 of EPA's List of Lists) 5000 lb

Ethanolamine hydrochloride : Listed on the United States TSCA (Toxic Substances Control Act) inventory

Regular Soldering Flux paste: All ingredients are listed in the Toxic Substances Control Act (TSCA).

US State regulations: ammonium chloride:

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

Canadian DSL: ammonium chloride , Ethanolamine hydrochloride, Regular Soldering Flux Paste ingredients: products are listed on the DSL.

EINECS (European Inventory of Existing Commercial Chemical Substances): ammonium chloride, Ethanolamine hydrochloride, ζ are Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

California Prop 65 Substances: PROPOSITION 65 WARNING: American Beauty tools & accessories are lead-free & RoHS Compliant. However, use of this product with lead-bearing solders (or any other chemicals found on the current Proposition 65 List) could expose the user to chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

Section 16: Other Information

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 1 - Must be preheated before ignition can occur

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.

SDS Author: ASSEMBLY TECHNOLOGIES INTERNATIONAL **Version Date:** 6/14/16

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NE = Not Established N/A = Not Applicable