

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name: SOFT SOLDER FLUX**

**Recommended Use of the Chemical and Restriction on Use:**

Soft solder flux paste for soft soldering of copper piping in potable water, heating and various plumbing installations applications.

**Details of Manufacturer or Importer:**

Bromic Group  
10 Phiney Place  
Ingleburn NSW 2565

**Phone Number:** 02 9426 5222

**Emergency telephone number:** 1300 276 642

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2A H319 Causes serious eye irritation.

**Label Elements**

**Signal Word** Warning

**Hazard Statements**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

**Precautionary Statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly after handling.

P270 Do no eat, drink or smoke when using this product.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Hazardous Components:**

12125-02-9	ammonium chloride	⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	<50%
68439-49-6	Alcohols, C16-18, ethoxylated	⚠ Aquatic Acute 1, H400	~15%

## 4 . FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

(Contd. on page 2)

**Product Name: SOFT SOLDER FLUX**

(Contd. of page 1)

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

Wash mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**5 . FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Chemical powder, foam or water fog.

**Specific Hazards Arising from the Chemical** No further relevant information available.

**Special Protective Equipment and Precautions for Fire Fighters**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

**6 . ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Clean the soiled surface with hot water. Ensure adequate ventilation.

**7 . HANDLING AND STORAGE**

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use.

**8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Exposure Standards (Safe Work Australia):**

**12125-02-9 ammonium chloride**

NES	Short-term value: 20 mg/m <sup>3</sup> Long-term value: 10 mg/m <sup>3</sup>
-----	---

**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

(Contd. on page 3)

**Product Name: SOFT SOLDER FLUX**

(Contd. of page 2)

**Personal Protective Equipment (PPE):**

**Respiratory Protection:**

Wear mask if working in small or poorly ventilated workplaces. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Neoprene gloves and protective clothing. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

**Eye and Face Protection:**

Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

**9 . PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:**

<b>Form:</b>	Paste
<b>Colour:</b>	Yellowish
<b>Odour:</b>	Odourless
<b>pH-Value:</b>	6-7
<b>Initial Boiling Point/Boiling Range:</b>	110 °C
<b>Flash Point:</b>	Not applicable.
<b>Flammability:</b>	Non flammable
<b>Auto-ignition Temperature:</b>	
<b>Decomposition Temperature:</b>	Not determined.
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	No information available
<b>Relative Density:</b>	1.1
<b>Vapour Density:</b>	Not determined.
<b>Solubility in Water:</b>	100% soluble

**10 . STABILITY AND REACTIVITY**

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** None

**Incompatible Materials:** None

**Hazardous Decomposition Products:** No dangerous decomposition products known.

**11 . TOXICOLOGICAL INFORMATION**

**Toxicity:**

**LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:**

**12125-02-9 ammonium chloride**

Oral	LD <sub>50</sub>	1650 mg/kg (rat)
------	------------------	------------------

**Acute Health Effects**

**Inhalation:** Fumes generated during soldering operations can be irritating to the respiratory tract.

**Skin:** Contact with skin may cause skin irritation.

**Eye:** Contact with eye may cause serious eye irritation.

(Contd. on page 4)

**Product Name: SOFT SOLDER FLUX**

(Contd. of page 3)

**Ingestion:** Harmful if swallowed.

**Skin Corrosion / Irritation:** Not expected to be a hazard.

**Serious Eye Damage / Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitisation:** No sensitising effects known.

**Germ Cell Mutagenicity:** Not expected to be a hazard.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Not expected to be a hazard.

**Specific Target Organ Toxicity (STOT) - Single Exposure:** Not expected to be a hazard.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:** Not expected to be a hazard.

**Aspiration Hazard:** Not expected to be a hazard.

**Chronic Health Effects:** None.

**12 . ECOLOGICAL INFORMATION**

**Ecotoxicity:**

**Aquatic toxicity:** No further relevant information available.

**Persistence and Degradability:** No further relevant information available.

**Bioaccumulative Potential:** No further relevant information available.

**Mobility in Soil:** No further relevant information available.

**13 . DISPOSAL CONSIDERATIONS**

**Disposal Methods and Containers:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

**14 . TRANSPORT INFORMATION**

**UN Number**

ADG, IMDG, IATA Void

**Proper Shipping Name**

ADG, IMDG, IATA Void

**Dangerous Goods Class**

ADG Class: Void

**Packing Group:**

ADG, IMDG, IATA Void

**Marine pollutant:** No

**15 . REGULATORY INFORMATION**

**Australian Inventory of Chemical Substances:**

12125-02-9	ammonium chloride
68439-49-6	Alcohols, C16-18, ethoxylated

(Contd. on page 5)

**Product Name: SOFT SOLDER FLUX**

(Contd. of page 4)

7732-18-5 | Water

**16 . OTHER INFORMATION****Creation Date:** 13.05.2013**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

**Disclaimer**

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Bromic Group makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.