



Consolidated Alloys

A Division of C.A. Group Australasia Pty. Limited Inc in Vic.
ABN 83 005 084 097 ACN 005 084 097

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Head Office: 32 Industrial Avenue, Thomastown, Victoria, Australia 3074
P.O. Box 199, Reservoir, Victoria, Australia 3073
Telephone: (03) 9359 5811
Facsimile: (03) 9359 4076
Email: info@cagroup.com.au

MATERIAL SAFETY DATA SHEET

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MATERIAL HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

IDENTIFICATION

Product Name:	BAKER'S SOLDERING FLUID
Other Names:	Radiant No.2 Soldering Fluid
UN Number:	1760
Dangerous Goods Class & Subsidiary Risk:	8
Hazchem Code:	2X
Poisons Schedule:	S6
Packaging Group:	II
Use:	General purpose soldering Fluid.

PHYSICAL DESCRIPTION/PROPERTIES:

Appearance:	Colourless liquid.
Melting Point:	No information available.
Boiling Point:	No information available.
Vapour Pressure:	No information available.
Specific Gravity (water = 1):	> 1
Flashpoint:	None
Flammability Limits:	None
Solubility in Water:	Miscible with water.

OTHER PROPERTIES: Corrosive Liquid pH 3.9.

INGREDIENTS:

<u>CHEMICAL ENTITY</u>	<u>CAS NO</u>	<u>PROPORTION</u>
Zinc Chloride	7646-85-7	30-60%
Ammonium Chloride	12125-02-9	< 10%
Water	7732-18-5	to 100%

Branch Offices at:
Sydney
Ph: (02) 9756 4011
Fax: (02) 9756 4074

Brisbane
Ph: (07) 3277 2977
Fax: (07) 3875 1994

Perth
Ph: (08) 9353 4818
Fax: (08) 9353 4814

Distributors at:
Adelaide
Ph: (08) 8276 8566
Fax: (08) 8276 9849

Hobart
Ph: (03) 6273 3455
Fax: (03) 6273 1901

M.S.D.S. - BAKER'S SOLDERING FLUID

Cont'd.

HEALTH HAZARD INFORMATION

HEALTH EFFECTS:

(i) Acute

Swallowed: The liquid is corrosive and harmful to the gastro-intestinal tract. An unlikely route of entry from industrial use.

Eye: The liquid is irritating and corrosive to the eyes and is capable of causing severe damage with loss of sight.

Skin: Corrosive and capable of causing burns to the skin with prolonged contact.

Inhaled: Not an inhalation risk at normal temperatures. At soldering temperatures minor respiratory tract irritation may occur due to hydrochloric acid fumes.

(ii) Chronic: No chronic effects have been reported in humans from normal industrial use. Neither zinc nor aluminium chloride have been listed by the International Agency for Research on Cancer as either human or animal carcinogens.

FIRST AID:

Swallowed: Do NOT induce vomiting. If poisoning occurs, contact doctor or Poisons Information Centre. If conscious, give water (or milk) to rinse out mouth and drink. Provide liquid slowly but as much as casualty will drink.

Eye: If contact with eyes occurs, hold eyes open, flood with water for at least 15 minutes and see a doctor without delay.

Skin: Immediately wash away with plenty of soap and water. Remove ALL contaminated clothing. If swelling, redness, blistering or irritation occurs seek medical advice.

Inhaled: First aid is unlikely to be required from normal use. However, if combustion products are inhaled remove to fresh air. Keep warm and rested. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation. Seek medical advice.

ADVICE TO DOCTOR:

Treat symptomatically. For ingestion consider gastric lavage.

M.S.D.S. - BAKER'S SOLDERING FLUID

Cont'd.

PRECAUTIONS FOR USE

Exposure Standards:

NOHSC (1991)

Zinc Chloride (fume):	1 mg/m ³ (TWA)	2 mg/m ³ (STEL)
Ammonium chloride (fume):	10 mg/m ³ (TWA)	20 mg/m ³ (STEL)
Hydrogen chloride:	5 ppm (TWA) Peak Limitation.	

Engineering Controls:

If irritating fumes of hydrogen chloride are given off, use with local exhaust ventilation.

Personal Protection:

Avoid skin and eye contact. Wear safety footwear, overalls, chemical goggles. If contact with skin is likely, barrier cream should be applied to the hands and forearms. If gloves are worn they should be impervious to dilute hydrochloric acid, e.g. PVC. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

Use with adequate ventilation. If inhalation risk remains (unlikely), wear a particulate/gas respirator complying with AS 1716. Use in accordance with AS 1715.

Flammability:

Non combustible material.

Other:

Ensure ready access to eye wash unit and safety shower.

SAFE HANDLING INFORMATION

Transport:

UN No. 1760 Packaging Group II.

Classified as Class 8 (Corrosive) Dangerous Substance for the purpose of transport. Corrosives should not be loaded in the same vehicle or packed in the same freight container with substances in the following classes:

Class 1	Explosives
Class 4.3	Dangerous When Wet Substances
Class 5.1	Oxidising Agents
Class 5.2	Organic Peroxides
Class 6	Poisonous (toxic) Substances (where the poisonous substances are cyanides and the corrosives are acids)
Class 7	Radioactive Substances

Foodstuff and foodstuff empties.

M.S.D.S. - BAKER'S SOLDERING FLUID Cont'd.

SAFE HANDLING INFORMATION Cont'd.

Storage: Store and handle in accordance with the requirements of the Dangerous Goods (Storage & handling) Regulations for Class 8 Substances (Part 10). This material is a Schedule 6 Poison and must be packaged and labelled in accordance with the Drugs, Poisons and Controlled Substances Act and regulations.

Spills and Disposal:

Large Spills: Environment hazard; contain spillage. Advise the Environment Protection Authority. Wearing protective clothing, absorb spill with inert material such as sand or vermiculite. Collect residues and seal in labelled drum for disposal. Spread area with lime and leave for at least 1 hour before washing. Wash area down with large quantities of water and prevent run off into drains or waterways.

Small Spills: Wash with plenty of water.

Disposal: Refer to State Land Management Authority.

Fire/Explosion Hazard:

Not combustible. However, heating to decomposition produces toxic fumes of hydrogen chloride, ammonia, nitrogen oxides and zinc oxide. Fire fighters should wear self-contained breathing apparatus if risk of exposure to products of decomposition.

Extinguishing Media: Water spray or fog. Foam.
Dry chemical powder. Carbon Dioxide.

Fire Fighting Procedures: Alert Fire Brigade and tell them location and nature of hazard. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

M.S.D.S. - BAKER'S SOLDERING FLUID

Cont'd.

OTHER INFORMATION:

<i>Risk Phrases:</i>	R34	Causes burns.
	R36-38	Irritating to skin and eyes.
	R41	Risk of serious damage to eyes.
<i>Safety Phrases:</i>	S1/2	Keep locked up and out of reach of children.
	S7/8	Keep container tightly closed and dry.
	S28	After contact with skin wash immediately with plenty of water.
	S45	In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

CONTACT POINT:

Consolidated Alloys
Melbourne (03) 9359-5811 (Business Hours)
Melbourne (03) 9878-3597 (After Hours – 24 Hrs.)

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