



SAFETY DATA SHEET

Section 1: GENERAL INFORMATION

TRADE NAME (Common Name or Synonym)	CHEMICAL NAME	PREPARED BY
NC-810	Soldering Flux	Metallic Resources

USED IN INDUSTRIAL SOLDERING PROCESSES

ADDRESS (No., Street, City, State, Zip Code):

Metallic Resources, Inc., 2368 East Enterprise Parkway, Twinsburg, OH 44087

CONTACT

PHONE NUMBER

Metallic Resources, Inc.:

(330) 425-3155

Chemtrec:

(800) 424-9300

or contact any emergency room within 15 minutes of your location.

Section 2: HAZARDS IDENTIFICATION

Signal Word: Danger

Hazard statement(s)

- H225 Highly flammable liquid and vapor
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness



Precautionary statement(s)

- P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
- P233 Keep container tightly closed
- P240 Ground/Bond container and receiving equipment
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P270 Do not eat, drink or smoke when using this product
- P273 Avoid release to the environment
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P362 Take off contaminated clothing and wash before reuse
- P301 + P314 IF SWALLOWED: Get Medical advice/attention if you feel unwell
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P304 + 341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305 + 351 IF IN EYES: Rinse continuously with water for several minutes

GHS Category

Isopropyl alcohol:

Flammable liquid- Category 2

Skin irritation- Category 3

Eye irritation – Category 2A

POTENTIAL HEALTH EFFECTS:

- Eye Contact:** Vapors may be irritating, liquid may irritate or damage eye tissue.
Ingestion: May result in gastric disturbances such as nausea and vomiting.

Section 2: HAZARDS IDENTIFICATION (Continued)

Inhalation: May cause irritation, headache or dizziness. Rosin has been known to cause occupational asthma. Rosin may cause sensitization by inhalation.

Skin Contact: Prolonged contact may cause irritation, dermatitis or sensitization.

Chronic: Not established.

NOTE: Metallic Resources does not recommend, manufacture, market or endorse any of its products for human consumption.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Material or Substance	C.A.S. #	Wt. %
2-Propanol	67-63-7	95-99%
Carboxylic Acid	68937-69-9	1-2%

Section 4: FIRST AID MEASURES

Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: If patient is conscious, ONLY induce vomiting as directed by trained personnel. NEVER give anything by mouth to an unconscious person. Seek medical attention immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel. Seek immediate medical attention.

Skin Contact: Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse. If irritation persists, obtain medical attention.

Section 5: FIRE FIGHTING MEASURES

Flash Point: 54F (12C) Method: TCC Flammable

Auto-ignition Temperature: Not established

Flammable Limits: Not established

Extinguishing Media: Use extinguishers appropriate for the surrounding fire conditions.

Special Fire Fighting Standard fire fighting equipment

Procedures:

Section 6: ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: DO NOT allow material to enter sewer system or waterway. Wear personal protective equipment, such as gloves and depending on the quantity a respirator with organic cartridges may be required. Clean up by absorption. Eliminate sources of ignition. Keep unnecessary personnel away. Put clean-up materials in a properly labeled metal drum. Dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste Regulations.

Section 7: HANDLING AND STORAGE

Handling Precautions: Keep containers tightly closed when not in use. Use care to avoid spills. Wear personal protective equipment. Ground containers when in use. Keep away from sources of heat.

Storage Precautions: Store product in tightly capped original containers in a cool, dry area, well ventilated away from sources of ignition. Refer to product label for specific storage temperature requirements. Rotate stock to ensure use before expiration date on the label.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Face velocity >2.1 cubic feet/minute in confined areas. Exhaust ventilation is recommended to keep exposure limits as low as possible. Keep exposure as low as possible.

Personal protection:

Eyes: Chemical safety glasses/goggles. Face shield for splash hazards.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

Respirator:	A NIOSH approved or compliant marked air-purifying respirator with a fume/organic chemical cartridge is recommended where airborne concentrations are expected to be elevated.
Skin:	Compatible chemical resistant gloves. Do not use latex gloves.
Other:	Lab coat, sleeve protectors, eyewash fountain in work area. Avoid the use of contact lenses in high fume areas.
Work/Hygienic Practices:	Maintain good housekeeping. Clean up spills immediately. Good personal hygiene is essential. Avoid eating, smoking or drinking in the work area. Wash hands thoroughly with soap and water immediately upon leaving the work area.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow liquid	Boiling Point: Not available
Odor: Alcoholic	Melting Point: Not applicable
Specific Gravity: 0.810+/-0.005	pH: Not applicable
Vapor Pressure: Not available	Solubility in Water: Insoluble
Vapor Density: Not established	

Section 10: STABILITY AND REACTIVITY

General:	Stable.
Conditions to Avoid:	Direct heat, open flames and storage in aluminum.
Incompatible Materials:	phosphorus, halogens, anhydrides, monomers, aldehydes, trichlorides
Hazardous Decomposition / Combustion:	Carbon dioxide/carbon monoxide.
Hazardous Polymerization:	Will not occur

Section 11: TOXICOLOGICAL INFORMATION

Carcinogenicity:	NTP: No	OSHA: No	IARC: No
LD50: Not established.	LC50: Not established.		

Section 12: ECOLOGICAL INFORMATION

No Data Available

Section 13: DISPOSAL CONSIDERATION

Waste Disposal Method:	Dispose of in accordance with all Federal, State and Local environmental regulations. In Europe follow the Special Waste Regulations.
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Section 14: TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.
UN1219, Isopropanol,3, PG II

**Section 15: REGULATORY INFORMATION****UNITED STATES**

CERCLA: Not subject to any special reporting under the requirements of CERCLA.

TSCA Status: All ingredients are listed or are exempt from listing (as polymers) under TSCA.

CANADA

WHMIS (Canada): Class B Division 2, Class D Division 2B

California Proposition 65: When used for soldering and similar applications, the chemicals may be products which are known to some states to cause birth defects or other reproductive harm.

Reach Directive: This product does not contain any Substances of Very High Concern (SVHC).

Section 16: OTHER INFORMATION

ABBREVIATION TERMS:

ACGIH	American Conference of Government Industrial Hygienists	OSHA	Occupational Safety and Health Act
CAS	Chemical Abstracts Service	PEL	Permissible Exposure Limit
CEPA	Canadian Environmental Protection Act	REL	Recommended Exposure Limit
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments & Reauthorization Act
NIOSH	National Institute for Occupational Safety and Health	TSCA	Toxic Substances Control Act
NTP	National Toxicology Program	N/A	Not Applicable, Not Available

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