SAFETY DATA SHEET

SRA Soldering Products

DATE REVISED: January 1, 2020

SECTION 1 -- IDENTIFICATION

Product Name/Part number: SRA 312 Flux, PEN-NC, REFILL-NC, PEN-NC-SET,

FLS312-100ML

Recommended use: Soft Soldering Flux

SRA Soldering Products **Emergency Contact: INFOTREC** Manufacturer:

> 24 Walpole Park S., STE 10 Emergency Phone: 1-535-5353 For other info: (508) 668-6044 Walpole MA, 02081

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with OSHA HCS (29 CFR 1910)

Flammable liquids (Category 2) H225 Eye irritation (Category 2) H319

Specific target organ toxicity - Single exposure; central nervous system, optic nerve,

respiratory system (Category 1) H370

Specific target organ toxicity – Repeated exposure; kidney, liver, spleen, blood

(Category 1) H372

See below for full text of H-Statement

GHS Label Elements, including precautionary statements

Pictogram(s):







Signal Word: Danger

Hazard Statement(s)

H225 Highly flammable liquid and vapor

Causes serious eye irritation H319 Causes damage to organs **H370

H372 Causes damage to organs through prolonged or repeated exposure

	Precautionary statement(s)
P210	Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233	Keep container tightly closed
P240	Ground or bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/lighting/equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing mists, vapors, or spray
P264	Wash hands and any exposed skin thoroughly after handling
P270	Do not eat, drink, or smoke when using this product
P280	Wear protective gloves and eye protection

IF ON SKIN (or hair): Take off immediately all contaminated clothing. P303+P361+P353

Rinse skin with water/shower

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

^{**} Not included on label due to presence of more severe statement

contact lenses, if present and easy to do. Continue rinsing.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for

extinction

P403+P235 Store in a well ventilated place. Keep cool

P405 Store locked up

P501 Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazards not otherwise classified or not covered by GHS: None

SECTION 3 – COMPOSITION INFORMATION

 Components
 CAS Number
 %

 Ethanol
 64-17-5
 85-99

 Carboxylic Acid
 68937-69-9
 1-15

Unlisted percentages are non-hazardous stabilizers, and water.

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in

attendance. Move out of dangerous area.

Inhalation: If breathed in, move to fresh air. If not breathing, give artificial respiration.

Consult a physician.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

Skin: Take off contaminated clothing and shoes immediately. Wash off with soap and

plenty of water. Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Rinse mouth with water. Consult a physician.

Most Important Symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2 (labeling) Medical Conditions Generally Aggravated by Exposure: Any weakness of the lungs, kidneys or liver will be aggravated.

SECTION 5 – FIREFIGHTING MEASURES

Suitable Extinguishing Media: Use dry chemical, carbon dioxide, or alcohol-resistant foam Special Hazards: Flammable. Vapors may form explosive mixtures with air. Vapors may travel

to source of ignition and flash back. Containers may explode when heated. Do not mix with strong oxidizing or dehydrating agents. Do not mix with strong oxidizing or dehydrating agents. Do not store in presence of oxidizing agents.

Special protective actions for firefighters: Wear protective clothing, including NIOSH-Approved self-contained breathing apparatus

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal Precautions and Equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. See section 8 for personal protection.
- Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- In Case Material is spilled: Contain spillage, absorb with sawdust and place in container for disposal according to local regulations.

SECTION 7 - HANDLING AND STORAGE

- Precautions for safe handling: Avoid inhalation of vapor or mist. Keep tightly closed in a dry and well-ventilated place.
- General Precautions: Do not eat, drink, or smoke while using this product. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

For full precaution statements see Section 2

Storage Requirements: Keep container tightly closed in a cool and well-ventilated area. Keep away from heat, open flame, electrical sparks, or oxidizing agents.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION CONTROL PARAMETERS

OSHA Permissible Exposure Limit (PEL): 1,000 ppm ACGIH Threshold Limit Value (TLV): 1,000 ppm

- Engineering Controls: Use local exhaust ventilation to maintain air concentrations of vapors and fumes below occupational exposure standards.
- Special Engineering Control Needs: Explosion proof and non-sparking electrical equipment
- Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a respirator with multi-purpose combination (USA) or ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face respirator. Use respirators and components tested an approved under appropriate government standards such as NIOSH (USA) or CEN (EU).
- Protective Gloves: Handle with gloves. (Nitrile Rubber recommended) Gloves must be inspected prior to use. Use proper glove removal techniques (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good lab practices. Wash and dry hands after handling.
- Eye Protection: Use tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (USA) or EN 166 (EU)
- Body Protection: Complete suit protecting against chemical, flame retardant protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and

must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

Appearance Clear liquid Odor Alcohol

Odor threshold
PH
No data available
-90°C/-130°F
Initial boiling point and boiling range
77°C/170.6°F
Flash point
11.7°C/53°F

Evaporation rate (Butyl Acetate = 1) 3.1

Flammability (Solid, gas) Liquid, gas

Upper flammability or explosive limits

Lower flammability or explosive limits

Upper explosion limit: 2%

Lower explosion limit: 12%

Vapor pressure 42 mmHg

Vapor density (Air = 1) 1.4Relative density (Water = 1) 0.815

Solubility(ies)

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

Soluble in water

No data available

No data available

No data available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: No data available

Stability: Product is stable under recommended storage conditions

Possibility of hazardous reactions: No data available Conditions to Avoid: Heat, sparks, and open flames

Incompatibility: Strong oxidizers

Hazardous Decomposition Products Carbon monoxide (CO), carbon dioxide (CO₂)

In the event of fire: See Section 5

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Route(s) of Exposure: Inhalation, ingestion, skin and eye contact

Symptoms (Immediate and Chronic) from

Acute Exposure No data available Prolonged or Repeated Exposure No data available

Measure(s) of toxicity

No data available

IARC: No component of this product is present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product is present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product is present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by OSHA

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

No data available

Bio accumulative potential No data available Mobility in soil No data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal company.

Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging Dispose of as unused product.

SECTION 14- TRANSPORTATION

D.O.T. (USA)

Proper Shipping Name: Alcohol, NOS (Contains Ethanol)
Identification Number: UN1987 Hazard Class(es): 3

Packing Group: II D.O.T. Label Req. Info: Flammable Liquid

Ground USA: (1-gallon and smaller) Classified as ORM-D. Refer to USA CFR 49 Regulations

SECTION 15 - REGULATORY INFORMATION

SARA 302 Components No Chemicals in this material are subject to the reporting

requirement of SARA Title III, Section 302.

SARA 313 Components The following components are subject to reporting levels

established by SARA Title III, Section 313

CAS No. Revision Date:

Ethanol 64-17-5 03/01/2007

SARA 311/312 Hazards Acute Health Hazard, Flammable

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

THIS PRODUCT IS ROHS 2 COMPLIANT

SECTION 16 - OTHER INFORMATION

Further information:

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. The above information does not represent any guarantee of the properties of the product. It is believed to be correct, but does not purport to be all inclusive and should be used only as a guide. Reasonable care has been taken in the preparation of this material, and is based on the present state of our knowledge.

SRA shall not be held liable for any damage resulting from handling or from contact with the above product. There are NO WARRANTIES, NO REPRESENTATIONS AND NO RESPONSIBILITY AS TO THE ACCURACY OR THE SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE TOUSE.

Reference(s):

Sigma-Aldrich – SDS for Ethanol

Preparation information SRA Soldering Products

Version 2.0