

Section 1: Substance and Supplier Identification

Product Name: CALFLUX SOLDERING FLUX

Supplier: Romanoff International Supply Corporation
9 Deforest St., Amityville NY, 11701 USA

EMERGENCY CONTACT: CHEMTEL (ACCOUNT #MIS4594445 COLLECT CALLS ACCEPTED)

USA, CANADA, PUERTO RICO & US VIRGIN ISLANDS: 1-800-255-3924

AUSTRALIA: 1-300-954-583 **BRAZIL:** 0-800-591-6042 **CHINA:** 400-120-0751

INDIA: 000-800-100-4086 **MEXICO:** 800-099-0731 **ALL OTHER COUNTRIES:** 1-813-248-0585

Section 2: Hazard Identification

Classification of the substance or mixture



Health hazard

Reproductive toxicity, category 1B

Hazards not otherwise classified - Combustible Dust

Reproductive toxicity - Repr.1

Signal word: Danger

Hazard statements:

May damage fertility or the unborn child

Precautionary statements:

Do not handle until all safety precautions have been read and understood

Obtain special instructions before use

Read label before use

If medical advice is needed, have product container or label at hand Keep out of reach of children

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

Do not eat, drink or smoke when using this product

Use personal protective equipment as required

If exposed or concerned: Get medical advice/attention

Store locked up

Dispose of contents and container as instructed in Section 13

Combustible Dust Hazard:

May form combustible dust concentrations in air (during processing)

WHMIS: NFPA/HMIS



HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	☒

Section 3: Composition/Information on ingredients

Ingredients		
CAS 10043-35-3	Boric Acid, ACS	
CAS 1303-96-4	BORAX	

Section 4: First Aid Measures

Description of first aid measure

After inhalation: Move exposed individual to fresh air. Loose clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists.

If breathing is difficult, administer oxygen.

After skin contact: Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

After eye contact. Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if possible during rinsing. Seek medical attention if irritation persists or if concerned.

After swallowing: Rinse mouth thoroughly Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea, Headache, Shortness of breath. Irritation - all routes of exposure. May cause central nervous system effects. Diarrhea. Vomiting; may impair fertility. May cause harm to the unborn child. May cause adverse liver and kidney effects.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.

Section 5 Firefighting Measures

Extinguishing media

Suitable extinguishing agents: if in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or source of ignition.

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Advice for firefighters: Suitable extinguishing agents:

Protective equipment: use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Use spark-proof tools and explosion-proof equipment.

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Transfer to a disposal or recovery container. Use spark-proof tools and explosion-proof equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air.)

Reference to other sections:

Section 7: Handling and storage

Precautions of safe handling:

Minimize dust generation and accumulation. Wash hands after handling. Avoid dispersal of dust in the air (i.e. Clearing dust surfaces with compressed air). Use only under a chemical fume hood. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to friction of transfer and mixing operations. Follow good hygiene procedures, when handling chemical materials. Do not eat, drink, smoke or use personal products when handling chemical substances. If in a laboratory setting, follow Chemical Hygiene Plan. Use only in well ventilated areas. Avoid generation of dust or fine particulate. Avoid contact with eyes, skin, and clothing.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Keep container tightly sealed. Store with like hazards.

Section 8: Exposure controls/personal protection

Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above it. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust handling system r an oxygen deficient environment. Ensure that dust-handling systems or an oxygen deficient environment. Ensure that dust-handling systems (Such as exhaust ducts, dust collector, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment). Use only under a chemical fume hood.

Respiratory protection:

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spoils, respiratory protection may be advisable.

Protection of skin:

The glove material has to be impermeable and resistant to the product/the substance/the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Eye protection:

Safety glasses with side shields or goggles.

General hygienic measure:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before and at the end of work. Do not inhale gases/fumes/dust.mist/vapor/aerosols. Avoid contact with the eyes/skin.

Section 9: Physical and chemical properties

Appearance (Physical state, color):	Yellow Green Solution	Explosion limit lower:	Not determined
		Explosion limit upper:	Not determined
Odor:	No noticeable order	Vapor pressure:	2.7 mbar @20C
Odor threshold:	Not determined	Vapor density:	Not determined
pH-value	3.6-4 (33 g/L)	Relative density:	8
Melting/Freezing point	169C	Solubilities:	Partly soluble in water
Boiling point/Boiling range	Not determined	Partition coefficient (n-octanol/water)	Not determined
Flash point (closed cup)	Not determined	Auto/Self-ignition temperature:	Not determined
Evaporation rate:	Not determined	Decomposition temperature:	100C
Flammability (solid, gaseous):	Not determined	Viscosity:	A. Kinematic: Not determined. B. Dynamic: Not determined
Density: Not determined			

Section 10: Stability and Reactivity

Reactivity:

Chemical stability: No decomposition if used and stored according to specifications.

Possible hazardous reactions:

Conditions to avoid: Store away from oxidizing agents acids or bases.

Incompatible materials: Strong acids. Strong bases.

Hazardous decomposition products: Oxides of boron, oxides of carbon

Section 11: Toxicological Information

Acute Toxicity:		
Oral:	10043-35-3	LD50 oral-rat 2660 mg/kg, 2500 mg/kg
Inhalation:	10043-35-3	LC50 inhalation-rat: 0.16 mg/L/4H
Chronic Toxicity: No additional information		
Corrosion Irritation: No additional information		
Sensitization:	No additional information	
Single Target Organ (STOT)	No additional information	
Numerical Measures:	No additional information	
Carcinogenicity	No additional information	
Mutagenicity:	Mutagenic effects have been observed in microorganisms.	
Reproductive Toxicity:	May impair fertility. May cause harm to the unborn child. Adverse reproductive effects have occurred in exposed humans.	

Section 12: Ecological Information

Ecotoxicity Persistence and degradability: Readily degradable in the environment.

Bioaccumulative potential:

Mobility in soil: -0.757

Other adverse effects:

Section 13: Disposal Considerations

Waste disposal recommendations:

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262 11). Consult federal state/provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

Section 14: Transport Information

UN Number:

UN proper shipping name:

Transport hazard class(es)

Packing group:

Environmental hazard:

Transport in bulk:

Special precautions for use:

Section 15: Regulatory Information

United states (USA):

SARA Section 311/312 (Specific toxic chemical listings):

Acute, Chronic

SARA Section 313 (Specific toxic chemical listings):

None of the the ingredients are listed

RCRA (hazardous waste code):

None of the ingredients are listed:

TSCA (Toxic Substances Control Act)

All ingredients are listed

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act):

None of the ingredients are listed

Proposition 65 (California)

Chemicals know to cause cancer:

None of the ingredients are listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed

Chemicals known to cause developmental toxicity:

None of the ingredients are listed

Canada

Canadian Domestic Substances List (DSL)

All ingredients are listed

Canadian NPRI ingredient Disclosure List (limit 0.1%)

None of the ingredients are listed

Canadian NPRI ingredient Disclosure List (limit 1%):

None of the ingredients are listed

Section 16: Regulatory Information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases:

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
PNEC: Predicted No-Effect Concentration (REACH)
CFR: Code of Federal Regulations (USA)
SARA: Superfund Amendments and Reauthorization Act (USA)
RCRA: Resources Conservation and Recovery Act (USA)
TSCA: Toxic Substances Control Act (USA)
NPRI: National Pollutant Release Inventory (Canada)
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
CASL: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Production Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)

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