

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: r255 aluminum flux  
 PRODUCT USE: flux for molten aluminum  
 SUPPLIER:

MANUFACTURER:  
 Synex, Inc.  
 1 Synex Ave.  
 Bridgeport, Al. 35740  
 Tel. 770-253-7652

EMERGENCY: 770-253-7652

## SECTION 2 - HAZARDS IDENTIFICATION

## GHS CLASSIFICATION

HEALTH		ENVIRONMENT		PHYSICAL
Acute Toxicity	none	Acute Toxicity	NONE KNOWN	NONE KNOWN
Skin Irritation	slight skin irritant	Chronic Toxicity:	NONE KNOWN	
Skin Sensitization	unknown			
Eye	slight eye irritant			

NFPA/HMIS: Health -2, Fire -0, Reactivity-0, Specific hazard  
 GHS LABEL



HAZARD STATEMENTS	PRECAUTIONARY STATEMENTS
H319: Causes eye irritation H332: Harmful if inhaled H335: May cause respiratory irritation	P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P403+P233: Store in a well ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with local regulation

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

sodium silico fluoride	16893-85-9
Potassium Chloride	7447-40-7
Sodium carbonate	6132-02-1
Sodium Chloride	7647-14-5
Sodium sulfate	7757-82-6

## SECTION 4 - FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.  
 Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.  
 Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.  
 Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.

## SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: this product is not considered flammable, nor will it support combustion

Unsuitable Extinguishing Media: na

Exposure Hazards: Inhalation and dermal contact

Flammability na

Combustion Products: na

Protection for Firefighters: fumes of  $\text{SiF}_4$  and  $\text{Na}_2$  may be given off. Self-contained breathing apparatus or full-face positive pressure airline masks.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Provide sufficient ventilation, wear suitable respiratory protective equipment.  
Prevent contact with skin or eyes (see section 8).

Environmental Precautions: Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.

Methods for Cleaning up: Clean up with sand or other inert absorbent material.

Materials not to be used for clean up: water

## SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing. use NIOSH approved respirator when tl<sub>v</sub> is exceeded.

Do not eat, drink or smoke while handling.

Storage: Store in dry area.

Keep away from acid, acidiferous vapors

Follow all precautionary information on container label, and product bulletins.

## SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

### EXPOSURE LIMITS:

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL:
Fluorides as Hexafluorosilicic	2.5mg/m <sup>3</sup>		2.5mg/m <sup>3</sup>	

Engineering Controls: Use local exhaust as needed.

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Eye Protection: Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure.

Skin Protection: Prevent contact with the skin as much as possible.  
Use of gloves or should provide adequate protection.

Respiratory Protection: Prevent inhalation of the fumes. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above.  
With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White or pink powder

Odor: NA

pH: Not Applicable

Melting/Freezing Point: (deg. F):1150-1250

Boiling Point: NA

Flash Point: NA

Specific Gravity: NA

Solubility:(wt.%) 8.5gr/LT

Partition Coefficient n-octanol/water: Not Available

Auto-ignition Temperature: NA

Decomposition Temperature: Not Applicable

Odor Threshold: NA

Boiling Range: NA

Evaporation Rate: NA

Flammability: this product is not considered flammable, nor will it support combustion

Flammability Limits:NA

UEL: NA

Vapor Pressure: NA

Vapor Density:NA

Other Data: Viscosity: NA

## SECTION 10 - STABILITY AND REACTIVITY

VOC Content: fumes of F, Cl, and NaO2 may be given off when heated to decomposition.

Stability: Stable

Hazardous decomposition products: fumes of F, Cl, and NaO2 may be given off

Conditions to avoid: Avoid dampness.

## SECTION 11 - TOXICOLOGICAL INFORMATION

Incompatible Materials: acid, acidferous vapors

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation: Can cause irritation of eyes and nasal passages.

Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury.

Skin Contact:contact may remove natural skin oils resulting in skin irritation.

Ingestion: May cause nausea, vomiting.

Chronic (long-term) effects: None known to humans

Toxicity:

Sodium fluorosilicate

430 mg/kg (oral, rat)

<u>Reproductive Effects</u> Not Established	<u>Teratogenicity</u> Not Established	<u>Mutagenicity</u> Not Established	<u>Embryotoxicity</u> Not Established	<u>Sensitization to Product</u> Not Established	<u>Synergistic Products</u> Not Established
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## SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None Known

Mobility: None Known

Degradability: Biodegradable

Bioaccumulation: Minimal to none.

## SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

## SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: cleaning compound  
Hazard Class: 2  
Secondary Risk: None  
Identification Number: UN 2856  
Packing Group: PG II  
Label Required: Class 2  
Marine Pollutant: NO



## SECTION 15 - REGULATORY INFORMATION

Risk Phrases: R20: Harmful by inhalation.  
R36/37: Irritating to eyes and respiratory system.  
Safety Phrases: S9: Keep container in a well-ventilated place.  
S25: Avoid contact with eyes.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S46: If swallowed, seek medical advise immediately and show this container or label.

## SECTION 16 - OTHER INFORMATION

Specification Information:  
Department issuing data sheet: Synex, Safety Health & Environmental Affairs  
All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).  
E-mail address: charlie@synex-flux.com  
Training necessary: Yes, training in practices and procedures contained in product literature.  
Reissue date / reason for reissue: 12/01/2015 / Updated GHS Standard Format  
Intended Use of Product: aluminum flux for molten metal.

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The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

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