

Syn^{thetic}EX^{othermic}s

SF207

SODIUM FREE FLUX

SF207 is a sodium free flux designed for general purpose use in aluminum. **SF207** was designed to remove unwanted oxides and nonmetallic impurities from molten aluminum alloys and unwanted oxide buildup from furnace walls, doors, launder troughs and wells where sodium should be avoided. Its excellent metal cleaning capabilities and its simple instructions make it quick and easy to use. It's superior formulation, composed of the finest dry chemicals available, gives the best possible results when working with sodium-sensitive alloys. **SF207** contains smoke suppressant agents to reduce fuming.

Product Appearance

Like all Synex fluxes, **SF207** is snow white in color and has the consistency of powdered sugar. All materials in Synex **SF207** are of the highest quality available. These materials are custom blended to keep the product granularity very tight, which prevents them from becoming unblended during shipment. Material separation is a common problem with the uneven particle size distribution found in the dry chemicals of other fluxes.

Product Purpose

SF207 is very highly effective at the removal of aluminum oxide and nonmetallic buildup on furnace walls, doors, and wells. It also effectively removes aged buildup on uncleaned furnaces within a short time. **SF207** can be applied simply and easily using readily available furnace tools.

Product Usage

SF207 is most effective when it is used to cover the oxide buildup on furnace walls, doors, and wells using an angled iron probe or flux injector. The amount of cleaner needed is determined by the normal buildup on your furnace walls (normally about ½ lb. to 1 lb. per sq. ft. of space). Consistent cleaning once a large buildup is removed will yield a cleaner, hotter furnace that can be used to its full capacity..

To order or receive additional product information call:

Synthetic Exothermic, Inc.
One Madison St.
Newnan, Georgia 30263

Tel. - (770)253-7652

FAX - (866)894-4254

Web - <http://www.synex-flux.com>

charlie@synex-flux.com

Synthetic Exothermic, Inc. fluxes are of the highest quality and conform with all Synex specifications. Purchaser must read and adhere to all safety handling warnings. Due to the fact that Synex has no control of the purchasers usage, Synex makes nor implies any warranties as to the specific results the purchaser may achieve.

Inventory available in:

ATLANTA, BIRMINGHAM, CLEVELAND, INDIANAPOLIS, MINNEAPOLIS, ST. LOUIS, TULSA AND ALTOONA (PA.)

ALSO-- ONTARIO & QUEBEC IN CANADA, AND MONTERREY, MEXICO

HIGH TECH FLUXES FOR WORLD CLASS CASTERS

date prepared 4/17/2008

PRODUCT NAME

SF 207 ALUMINUM FLUX

SECTION I - PRODUCT IDENTITY

Manufacturer's name: **Synex, Inc.**

EMERGENCY TELEPHONE: 770-253-7652, FAX 866-894-4254

address: **Synthetic Exothermics**, Inc. One Madison Street, Newnan, Georgia 30263

Chemical name: aluminum flux trade name and synonyms: **SF207**

PRODUCT IDENTIFICATION

Chemical Name: Flux

Chemical Family: Chlorides, Carbonates, Fluorides

Formula: Mixture

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

SECTION II HAZARDOUS INGREDIENTS/ IDENTITY INFORMATION

Hazardous Components

other limits

Specific Chemical Identity: Common Name(s) OSHA PEL ACGIH TLV recommended

Fluorides as potassium silicofluoride

2.5mg/m3 2.5mg/m3

(CAS NO. 16871-90-2 less than 10%)

Nuisance Dust Respirable

5mg/m3 5mg/m3 N/A

Total Dust

15mg/m3 10mg/m3 N/A

SECTION III - PHYSICAL PROPERTIES

molecular weight:nd

specific gravity(water=1):nd

melting point (deg. F):1350-1400

boiling point (deg. C):na

water solubility (wt.%) 8.5gr/LT

volatiles (wt.%)nd

vapor pressure (mmhg):na

vapor density (air =1):na

evaporation rate: nd

appearance and odor: white crystalline powder.

SECTION IV- FIRE AND EXPLOSION HAZARD DATA

Flash point (method used): nd

flammable limits:nd

extinguishing media: this product is not considered flammable, nor will it support combustion.

special fire fighting procedures: wear respirator for fluorides

unusual fire and explosion hazards: fumes of F_2 and NaF may be given off

SECTION V- REACTIVITY DATA

stability: unstable stable X factors promoting instability:

hazardous polymerization: will not occur

incompatibility: acid, acidferous vapors

avoid contact with:acids or high temperatures except under controlled

conditions. Avoid dampness. Keep container closed. **Store in dry place.**

hazardous decomposition products:fumes of F, and Cl may be given off when heated to decomposition.

na= not applicable nd= not determined unk=unknown

SECTION VI- HEALTH HAZARD INFORMATION

Routes of Entry Inhalation? yes Skin? yes Ingestion? yes

Health Hazards (acute and chronic):

Prolonged exposure to skin may lead to irritation. Prolonged inhalation may cause mucous membrane and respiratory system irritation.

Harmful or fatal if ingested.

Carcinogenicity: not known to be a carcinogenic

NTP? No IARC monographs? No OSHA Regulated? No

Medical conditions generally aggravated by exposure. - None Known

Emergency and First Aid Procedures-

Skin Contact- Flush liberally with flowing water for at least 15 minutes.

Eye Contact- Flush liberally with flowing water or physiological NaCl solution. When Flushing eyes, Lids should be kept open.

Inhalation. Remove to fresh air. In case of breathing difficulties, give oxygen.

In any of the above situations, call a physician.

SECTION VII - ENVIRONMENTAL PROTECTION PROCEDURES

release or spill response: use clean up method which minimizes airborne dust and avoid contamination to outplant streams.

waste disposal method: properly label waste container.

SECTION VIII- SPECIAL PROTECTION INFORMATION

hands (glove material to minimize contact): avoid skin contact.

eyes: avoid eye contact. Use goggles.

respirator type: use NIOSH approved respirator when tlv is exceeded.

ventilation requirements: local exhaust required.

other: safety shower and/or eye wash should be available

SECTION IX - SPECIAL PRECAUTIONS

special precautions in handling and storing: wash after handling

store in dry area.

shipping regulations: none labels required:nd

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