

Syn^{thetic}EX^{othermic}s

BA315

BRASS/BRONZE CLEANING FLUX

BA315 is our best brass/bronze cleaning flux for use in cleaning induction furnaces. Designed to clean furnace crucibles, its chemical properties do an excellent job of removing unwanted oxides and slag from molten metal.

Improves fluidity.

BA315 does an excellent job increasing the fluidity of the metal thus improving the cast surface finish of the metals.

Product Appearance

Like most Synex fluxes, **BA315** is snow white in color and has the consistency of powdered sugar. All materials in Synex **BA315** are of the highest quality available anywhere. The high quality materials are custom blended to keep the product granularity very tight, which prevents them from becoming unblended during shipment.

Product Purpose.

BA315 is highly effective at the removal of brass or bronze (aluminum based) oxides and nonmetallic buildup from crucible walls and doors. It also effectively removes aged buildup from uncleaned crucibles, which helps to extend the life of the furnace.

Product Usage

BA315 can be used in small crucibles gas or oil fired, but truly excels when used in inductive furnaces. About 4 ounces per hundred weight of brass will leave you very little to slag off and dry powdery wall scrapings. Slag buildup on crucible walls is greatly reduced, which helps to restore the full melt capacity of the unit. The amount of product needed is determined by the furnace's normal operating environment (about 3 to 5 oz. of **BA315** for every hundred pounds of metal).

For product or additional information call:

Synthetic Exothermic, Inc.

One Madison St.

Newnan, Georgia 30263

Tel. - (770)253-7652

Fax - (866)894-4254

www.synex-flux.com/

High Tech Fluxes for Today's Metals

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 purchaser's usage, Synex makes nor implies any warranties as to the specific results the purchaser may achieve.

date prepared 4/17/2008

PRODUCT NAME

BA315 brass-bronze 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: brass flux trade name and synonyms: **BA315**

PRODUCT IDENTIFICATION

Chemical Name: Inorganic Salts

Chemical Family: Fluorides

Formula: Mixture NFPA/HMIS: Health -3, Fire -0, Reactivity-0, Specific hazard

SECTION II HAZARDOUS INGREDIENTS/ IDENTITY INFORMATION

Hazardous Components

Specific Chemical Identity:

	OSHA PEL	ACGIH TLV
Fluorides as Cryolite (CAS NO. 13775-53-6, 20-50%	2.5mg/m3	2.5mg/m3
Fluorides as potassium fluoride (CAS NO.7789-23-3, 20-50%	2.5mg/m3	2.5mg/m3
Fluorides as sodium tetrafluoride CAS NO. 7681-49-4 20-50%	2.5mg/m3	2.5mg/m3
Fluorides as sodium silicofluoride CAS NO. 16893-85-9 20-50%	2.5mg/m3	2.5mg/m3
Fluorides as potassium silicofluoride CAS NO. 16871-90-2 20-50%	2.5mg/m3	2.5mg/m3
Nuisance Dust Respirable	5mg/m3	5mg/m3
Total Dust	15mg/m3	10mg/m3

SECTION III - PHYSICAL PROPERTIES

molecular weight:nd specific gravity(water=1):nd
melting point (deg. F):2150-2250F boiling point (deg. C):na
water solubility (wt.%) 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 sif4 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 may be given off when heated to decomposition.

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na= not applicable nd= not determined unk=unknown

SECTION VI- HEALTH HAZARD INFORMATION

CHEMICAL HEALTH HAZARD RATING:

HEALTH =3 (high)
FIRE = 0 (least)
REACTIVITY = 0 (least)
CHRONIC = *

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: NO NTP? No IARC monographs? No OSHA Regulated? No

Medical conditions generally aggravated by exposure. - Respiratory irritant.

Chronic lung damage, scar tissue development in lungs can occur over extended period.

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: none

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