MATERIAL SAFETY DATA SHEET

ASBURY FLUXMASTER
1281 Old ThoroldStone Rd
Thorold, Ontario L2V 3Y7
PHONE: 905 826 2244

EMERGENCY TELEPHONE
800-424-9300 CHEMTREC
Revision 10/16/07
MSDS 061

PRODUCT IDENTIFICATION

Chemical Name: Salt Flux
Chemical Family: Mixture of Alkali Halogenated Salts
Formula: Blend
Trade name: #711 Flux, #833 Exothermic Flux, #713 Flux

HAZARDOUS CONSTITUENTS

Name	CAS #	NIOSH	OSHA Pel	ACGIH tlv
Sodium Fluorosilcate, ($Na_2SiF_{6)}$	16893-85-9	none	2.5 (F^-)	2.5 (F^-)
Sodium Nitrate ($NaNO_3$)	7631-99-4	n/l[1]	15[*];5[**]	10

* values expressed in Mg/m^3 [*] Total Dust, [**] Respirable dust
[1] classed as Particulates, not otherwise classified

PHYSICAL PROPERTIES

Freezing point: N/A
Melting point: approx. 900-1030 F
Boiling point: N/A
Sublimes: N/A
Evaporation: N/A
Vapor Pressure: N/A
Vapor Density: N/A
Density (g/cc): 2.7
H_2O Solubility: >85% at 20 C
% Volatiles: none

Appearance and odor: white to beige powder .. (dyed pink for identification) … No odor.

EXPLOSION AND REACTIVITY DATA

Flash Point: none
Flammable (explosive) **Limits**: V/V%
LEL: none **UEL**: none

Extinguishing Media: This material is non-combustible. Use extinguishing media suitable such as water fog, carbon dioxide, foam or dry chemical. Use of water may generate hydrogen gas.

Special Firefighting Procedures: If this material is involved in a fire-fighting situation, use a full-face, air-supplied, positive pressure. Use of water may result in generation of fumes including hydrogen fluoride, and/or hydrogen gas.

Unusual Fire or Explosion Hazards: If involved in a fire, this material upon contact with water may evolve hydrogen gas.

EXPLOSION AND REACTIVITY DATA (continued)

General Reactivity Information: The product is a stable material.
Contains sodium nitrate, an oxidizer. **Store away from reducing agents.**

Incompatibility: Contact with acid may liberate hydrogen fluoride gas that is toxic and corrosive. Avoid contact with acid, acid vapors, and reactive metals, and strong reducing agents.

Hazardous Decomposition Products: During melting operations and at elevated temperatures, fluoride compounds will be liberated, including, but not limited to hydrogen fluoride and/or chlorine fumes.

HEALTH HAZARD INFORMATION/EMERGENCY PROCEDURES

General: Exposure to dust or fumes of fluoride containing salts may present significant health hazards. Fluoride salts may cause acute poisoning and/or death (principally by ingestion). Skin contact and exposure to soft tissues or mucous membranes may result in severe irritation and/or tissue damage. Crippling bone changes and mottling of tooth enamel are reported as chronic effects of overexposure. **These effects are not common currently in industrial employees.**

ACUTE- Ingestion of fluoride salts can cause gastric pain, internal bleeding, tissue damage and death. Nose bleeds, skin rashes, eye irritation and slow healing scars may result if over-exposed. Fluoride salts are soluble in body fluids and are corrosive to the skin and mucous membranes.

CHRONIC- Chronic exposure may lead to calcification of the bones and ligaments, osteosclerosis. Prolonged exposure to fluoride salts may cause tissue damage.

Inhalation: NIOSH approved respirators are recommended if engineering controls are not feasible or unable to maintain a concentration below that specified. **If overexposed, remove victim to fresh air**. **Rinse mouth and nasal passages with water if the person is conscious.**

Ingestion: If conscious, give victim large quantities of water and induce vomiting.
Do not induce vomiting in an unconscious subject.
SEEK MEDICAL ATTENTION IMMEDIATELY.

Skin: Wear gloves if prolonged or repeated contact is expected. **If irritation is evident, wash the contaminated area repeatedly with water and a mild soap. Always wash thoroughly after contact with fluoride salts.**

Eyes: Proper protective equipment is recommended at all times. Safety glasses should be worn at all times. **In the event of exposure, flush the eyes with large amounts of water, occasionally lifting the upper and lower lids. SEEK MEDICAL ATTENTION AS BURNS MAY NOT BE EVIDENT OR MAY APPEAR LATER.**

Carcinogenic References: There are no carcinogenic references for the products used in producing the material.

ENVIRONMENTAL PROTECTION INFORMATION

In the event of a spill of powder or dust, clean-up should be conducted using a vacuum system with a high efficiency particulate air filtration system. Caution should be taken to minimize airborne generation of powder or dust and to avoid contamination of air and water.

Fluoride compounds may have significant impact on air and water quality. Airborne emissions, spills and releases to the environment (discharge to streams, sewer systems, ground water, surface soil, etc.) should be controlled immediately. If such potential for a spill or release exists, it is advisable to develop an emergency spill response plan. It is also advisable to consider monitoring ambient air as well as any effluent which may contain fluorides if potential exists for damage to aquatic or terrestrial ecosystems.

State or federal regulations may require specific labeling, packaging, storage, transportation and disposal procedures. It is recommended to contact an Environmental Engineer or consultant familiar with the applicable waste disposal regulations.

SPECIAL PRECAUTIONS

When working with fluoride containing salts it is advisable to wear eye protection, NIOSH approved respirator, and gloves to limit exposure. Contact with the actual material should be minimized. **Always wash thoroughly prior to eating or smoking.**

This product must be handled accordingly to the size, shape and quantity of material involved.
Drums may require use of hoists, cranes etc.

Store this material in a dry area.
Fluoride salts should not be stored adjacent to acids.
Keep away from contact with food or feed products.

DOT SHIPPING INFORMATION:
This material is regulated by the DOT for land transportation.

Sodium Nitrate is an oxidizer and is found in 172.101 of the CFR.

The following is the most accurate description of the material for shipping purposes.

"Sodium Nitrate, Class 5.1, (6.1) UN # 1498, PG III