MATERIAL SAFETY DATA SHEET (MSDS)
ALUMINIUM BRAZING FLUX

DATE: July 2013
Ref. No.: MS105

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Aluminium Brazing Flux
Colour coding: White Powder
Working Range: 420 – 480 °C
Company Identification: African Oxygen Limited
Johannesburg, 2001
Tel No: (011) 490-0400
Fax No: (011) 490-0506

EMERGENCY NUMBER 0860 020202 or +27 (0)11 821-3000 (24 hours)

2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Aluminium Brazing Flux
Contains: Product contains chemical composition of non-hygroscopic fluorides

3 HAZARDS IDENTIFICATION

Main Hazards
Inhalation of fumes will be irritating to the nose and throat and will cause smarting of the eyes. Tests carried out on fluxes indicate they are moderately irritating to the skin and if the skin is broken immediate irritation will occur on contact.

Adverse Health Effects
In acute cases there is a danger of pulmonary oedema although this occurrence could also result from inhalation of brazing metal fume or torch gases.

Chemical Hazards
Contain chemical composition of non-hygroscopic fluorides.

Biological Hazards
Vapour Inhalation
Severe long term exposure to fume may result in fluorosis.

4 FIRST AID MEASURES

Eye Contact
Irrigate with water or isotonic saline for up to 20 minutes. Seek medical attention if there is any hint of eye damage.

Skin Contact
Remove any contaminated clothing and wash skin with soap and water. Seek medical attention if sores develop.

Ingestion
Rinse mouth with water and give patient water or milk to drink. Do not induce vomiting. Summon medical aid.

Inhalation
Remove from exposure and allow to rest in fresh air. In acute cases apply artificial respiration and, if necessary summon medical aid.

5 FIRE FIGHTING MEASURES

Extinguishing Media
Use any extinguishing medium suitable for surrounding fire.

Specific Hazards - Non Flammable

Protective Clothing
Use full protection with breathing apparatus if involved in a fire as harmful fumes may be evolved.

Environmental Precautions

6 ACCIDENTAL RELEASE MEASURES

Powder
Carefully sweep up and collect in suitable container for re-use or disposal.

Paste
Either collects in suitable container for re-use or disposal. For large spills, cover with sand or other inert absorbent and collect in suitable container for disposal. Avoid contact with skin or eyes and do not inhale dust.

7 HANDLING AND STORAGE

Use only under conditions of good local ventilation or efficient extraction systems and do not inhale fumes evolved during use. Avoid contact with skin and eyes. Do not eat, drink, smoke or apply cosmetics whilst using this material. Keep away from food, drink and animal feeding stuffs and out of reach of children. Observe good industrial hygiene practices. STORAGE: Under exclusion of moisture and chemicals in tightly closed containers at ambient temperature.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Hazards
Avoid exposure to fume with good ventilation or local extraction.

Engineering Control Measures

Personal Protection
If a risk of inhalation exists personal respiratory protection should be worn. If necessary the use of safety glasses should be considered.

Skin
The use of barrier creams may present skin irritation. Wash hands and clean fingernails before meals.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DATA

Appearance: Odourless powder
Ph: Not known
Boiling/Melting Point: Becomes fluid on heating
Working Range: 420 – 480 °C
Flash Point: Not applicable
Flammability: Non flammable
Explosive properties: Not explosive
Oxidizing properties: Not oxidizing
Vapour pressure: Not known
Solubility: Water-low solubility
Partition Coefficient: No data

10 STABILITY AND REACTIVITY

Containers of powder left open once the seals are broken may absorb moisture and become lumpy. Do not freeze. No other adverse reactions are known.

11 TOXICOLOGICAL INFORMATION

Toxicological data for these preparations: LD50 (oral) > 200mg/kg. Classified as moderately irritating, according to Draize skin test.

(For further information see Section 3. Adverse Health effects)

12 ECOLOGICAL INFORMATION

As far as known no threat is posed to environment by this material.

13 DISPOSAL CONSIDERATIONS

Disposal: according to local and national regulations.

14 TRANSPORT INFORMATION

None

15 REGULATORY INFORMATION

Harmful

Risk Phrase Description Safety Phrase Description
R20/22 Harmful by inhalation, & S2 Keep out of reach of Children if swallowed
R36/38 Irritating to eyes & skin S13 Keep away from food, drink & animal feed stuffs S21 When using do not smoke S22 Do not breathe dust S26 In case of eye contact, rinse immediately with water and seek medical advice S28 After contact with skin wash immediately with plenty water

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16 OTHER INFORMATION

Bibliography
SABS 0265 - Labelling of Dangerous Substances

17 EXCLUSION OF LIABILITY

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