

**1 PRODUCT AND COMPANY IDENTIFICATION**
**Product Name** Brazing Fluxes

PRODUCT NAME	FORM	WORKING RANGE	PH	GROUP
Easyflo Flux Powder	White Powder	550–800°C	8	1
Easyflo – Stainless Steel Grade	White Powder	550–775°C	8	1
Easyflo Flux Paste	White Paste	578–825°C	8	1
Easyflo Dipping Grade	White Paste	550–750 °C	9	1
Tenacity No 5A	Brown Powder	600–900 °C	8	2
Tenacity 125 Powder	White Powder	750–1200 °C	7	3
Tenacity 125 Paste	White Paste	750–1200 °C	7	3
Tenacity 12 Powder	White Powder	1000–1300 °C	Not Known	5
Tenacity 12 Paste	White Paste	1000–1300 °C	Not Known	5
Tenacity 5 Powder	White Powder	600–900 °C	Not Known	6
Tenacity 10 Powder	White Powder	1000–1300 °C	Not Known	7
Flux Coating on Rods	White Compact + Colorant	550–850 °C	8	9
Tenacity 300 Powder	White Powder	800–1300 °C	Not known	8
Tenacity 300 Paste	White Paste	800–1300 °C	Not known	8
"S" Powder	White Powder	800–1300 °C	Not known	8
"S" Paste	White Paste	800–1300 °C	Not known	8
Tenacity 500 Paste	White Paste	800–1200 ° C	Not known	1
Tenacity 600 Powder	White Powder	800–1300 °C	Not known	8
Tenacity 600 Paste	White Paste	800–1300 °C	Not known	8

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**2 COMPOSITION/INFORMATION ON INGREDIENTS**

bifluoride, tetraborate, fluoroborate of potassium, boric acid, boric anhydride fluorosilicate of potassium, elemental boron, potassium tetraborate, borax and boric acid, boric oxide, silicofluoride of potassium, potassium bifluoride, bifluoride and organic polymers

**3 HAZARDS IDENTIFICATION**
**Main Hazards**

The main hazard with this product occurs in its use. On heating the flux will fume slightly, and with overheating the fume will increase. The fumes produced include hydrogen fluoride and boron trifluoride which can cause irritation of the nasal passages, eyes and throat. The flux is harmful by ingestion and is irritating to the eyes. Contact with skin may cause moderate irritation.

**4 FIRST AID MEASURES**

Severe long term exposure to fume may result in fluorosis. 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. 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.

**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**
**Emergency Actions**

CONTACT THE NEAREST AFROX BRANCH.

**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: Store in a cool, dry place. Keep container closed when not in use.

**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 or paste
Ph	Not known
Boiling/Melting Point	Becomes fluid on heating
Flash Point	Not applicable
Flammability	Non flammable
Explosive properties	Not explosive

Ref. No.: MS106  
 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. Pastes are water based, and whilst stable, will lose water by evaporation if left open. 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

Phrase		Phrase	
R20/22	Harmful by inhalation, & if swallowed	S2	Keep out of reach of Children
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 of water

National legislation None  
 Refer to SABS 0265 for explanation of the above.

**16 OTHER INFORMATION**

**Bibliography**  
 SABS 0265 - Labelling of Dangerous Substances

**17 EXCLUSION OF LIABILITY**

Information contained in this publication is accurate at the date of publication. The company does not accept liability arising from the use of this information, or the use, application, adaptation or process of any products described herein.

Risk	Description	Safety	Description
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