Material Safety Data Sheet
TANGANYIKA kH BUFFER

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Section 1 CHEMICAL INGREDIENTS / IDENTIFICATION INFORMATION

A proprietary blend of Powdered Carbonate mineral Salts:
Including: Monosodium Carbonate, Sodium Carbonate, Sodium Bicarbonate, Magnesium Carbonate, Potassium Carbonate, Potassium Chloride, and Trace elements

Section 2 HAZARD IDENTIFICATION	
ADG Code	Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code), Directive(s)67/548/EEC and /or 1999/45/EC and or Regulation (EC) No 1272/2008
ASCC Hazard Classification	Not Hazardous according to the criteria [NOHSC:1008(2004)]
Poisons Schedule	No Data Available
Potential Acute Health Effects	Hazardous in case of ingestion. Slightly Hazardous, in case of large quantities may cause gastrointestinal distress and vomiting Slightly Hazardous in case of skin contact (irritant), Slightly Hazardous in case of eye contact (Irritant), In case of inhalation (Irritant), to respiratory tract.
Carcinogenic Effects	No Data Available
Mutagenic Effects	No Data Available
Teratogenic Effects	No Data Available
Developmental Toxicity	No Data Available

Section 3 REACTIVITY DATA	
Stability	Stable under normal Conditions, Slightly Hygroscopic
Conditions to avoid	None
Incompatibility (Materials to Avoid)	Acids, Fluoride, Formaldehyde, Bromine trifluoride, Lithium.
Hazardous Decomposition or Byproducts	None
Polymerization Conditions to avoid	None

Section 4 EMERGENCY AND FIRST AID PROCEDURES	
If ingested	Give several glasses of water to drink to dilute. If large amounts are swallowed seek medical advice.
Eye Exposure	Check for and remove any contact lenses and immediately flush with plenty of water for up to 15 minutes, holding eyes open.
Skin Irritation	Rinse off thoroughly with water

Section 5 PHYSICAL AND CHEMICAL CHARACTERISTICS			
Physical State	Solid	**Flash Point**	No Data Available
Appearance	Dust/Powder	**Auto Ignition Temp**	No Data Available
Odor	Non	**Evaporation Rate**	No Data Available
Colour	White	**Bulk Density**	1.3
Physical State pH	8.5 to 9.5	**Corrosion Rate**	No Data Available
Vapor Pressure	No Data Available	**Documention Temperature**	No Data Available
Relative Vapor Density	No Data Available	**Density**	No Data Available
Melting Point	Decomposes @ 270ºc	**Specific Heat**	No Data Available
Solubility in water	100% 0.8g/10lt	**Net Propellant Weight**	No Data Available
Freezing point	No Data Available	**Partial size**	No Data Available
Specific Gravity	No Data Available	**Potential Coefficient**	No Data Available
Boiling Point	Decomposes	**Specific Gravity (h^2o=1)**	2.17
Keep container dry. Do not ingest. Do not breathe dust. Never add water to product, in cases of insufficient ventilation, Wear suitable respiratory equipment. Keep away from incompatibles such as oxidizing agents, metals, acids.			
Storage	Keep container tightly closed. Keep container in cool, well ventilated area.		

Section 7 STABILITY AND REACTIVE DATE	
Stability	The product is stable
Instability Temperature	Not available
Condition of instability	Moisture, Fluoride, incompatible metals
Incompatibility with other substances:	Reacts to Fluoride, oxidizing agents, acids & incompatible metals Bromine trifluoride, Lithium, strong acids
Corrosivity	Non corrosive in presence of glass
Reactivity	Incompatible with Diazomethane, Aluminum, Magnesium, Phosphorous,
Polymerization	Will not occur
Hazardous Decomposition Products:	Carbon Dioxide, oxides of magnesium.

Section 8 FIRE AND EXPLOSION HAZARD DATA	
Carcinogenic Effects	Not available
Mutagenic Effects	Potassium Chloride is mutinagenic for mammalian sommalian cells, bacteria and / or yeast.
Developmental Toxicity	Not available
Teratogenic Effects	Not available
Potassium Carbonate	Toxic to mucous membranes with long term exposure
Sodium Carbonate	Emits Na20 fumes when heated to decomposition.
Sodium Carbonate	Can ignite and burn fiercely in contact with fluoride.
Sodium Carbonate	In contact with fluoride decomposed at ordinary temperature with incandescence.
Sodium Carbonate	Reacts explosively with red-hot aluminum metal.
Sodium Carbonate	Sodium Carbonate + Ammonia in arabic gum solution will explode.
When a Mixture of Calcium and Magnesium: is heated in a current of Hydrogen, a violent explosion occurs.	
Sodium Chloride (Salt)	When heated to decomposition at very high temperature it emits toxic fumes of chlorine & sodium oxide. May evolve chlorine gas when in contact with strong acids.
Auto-Ignition Temperature	Not available
Flash Point	Not available
Flammable Limits	Not available
General Measures	Clear fire area of all non-emergency personnel. Stay up wind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if possible without risk.
Flammability Conditions	Non flammable solid
Extinguishing Media	Water, Dry powder, Foam, Carbon Dioxide
Hazardous Product of Combustion	Heating to dryness will produce obnoxious and toxic fumes
Special Fire Fighting Instructions	Do not allow fire fighting water to reach waterways, drains or sewers. Store fire water for treatment
Personal Protective Equipment	Fire fighters should wear a positive-pressure self contained breathing apparatus (SCBA) and protective fire fighting clothing (Including fire fighting helmet, coat, trousers, boots and gloves)
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temp	No Data Available
Hazchem Code	No Data Available

Section 9 ACCIDENTAL RELEASE MEASURES	
General Response Procedure	Avoid accidents, Clean up immediately, Slippery when spilt. Eliminate all sources of ignition. Increase Ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment.
Clean Up Procedures	Remove excess product with shovel, then rinse affected area with plenty of water
Waste Disposal	To be disposed of in accordance with federal, state and local environmental control regulations
Containment	Stop leak if safe to do so. Isolate the danger area
Decontamination	Rinse affected area with plenty of water.