MIXING instructions for: DUTRION Powders A & B

Task: Producing a liquid chlorine dioxide solution from Dutrion Component A & Dutrion Component B. The Components A & B and the liquid solution must be handled with care and all procedures must be followed according to the product label and the MSDS.

General Safety Guidelines

- **Read MSDS GUIDELINES of Component A and Component B first**
- Be aware of off-gassing and never mix components in open containers or buckets
- Use safety gear (respirator, goggles and gloves)
- Maintain ventilation in room during preparation and storage
- Be sure to mix in potable water with a **maximum temperature** of 40° Celsius (104° F)
- Ask questions to your supplier before opening the foils
- Follow the steps below to make the right amount of stock solution

Preparation of the stock solution

- Always read the MSDS of the components and stock solution and follow the safety instructions
- Write the date of production on the label of the container

Step 1:

- Choose the desired strength of stock solution from the mixing table on the product label
- Fill qualified container for chlorine dioxide solution with exactly the amount of potable water
- Find the temperature of the water in the container (optimum is 20° Celsius (68° F))

Step 2:

- First add slowly component A to the water in container; *Do not inhale above open foils*
- Next, add slowly component B to the water in the container; *Do not inhale above container*
- Close container quick and tightly
- Do not stir or mix the water or shake the container
- Wait according to timetable instructions:

Step 3:

- After reaction time; shake small containers gently, or stir/mix larger containers slowly
- Always be aware of CLO2 fumes during this mixing
- Stock solution with liquid chlorine dioxide is now ready for dosing.
- Store in cool, dark and vented room

WATER TEMP.	FULL REACTION TIME	COMMENTS
40 °C 104 °F	< 10 minutes	MAXIMUM TEMP.
30 °C 86 °F	< 20 minutes	------
20 °C 68 °F	< 30 minutes	OPTIMUM TEMP.
10 °C 50 °F	> 60 minutes (up to 6 hrs)	LONGER REACTION TIME