

Specification Sheet for CMIT/MIT-14

Chemical characterization
Component

Mixtures

26172-55-4	5-Chloro-2-methyl-4-isothiazolin-3-one	10.0-12.0%
2682-20-4	2- methyl-4-isothiazolin-3-one	3.0-5.0%
2682-20-4	Magnesium chloride	5.0-7.0%
10377-60-3	Magnesium nitrate	18.0-22.0%
7732-18-5	Water	Balance

* All concentrations are percent by weight.

Specification Sheet

ITEMS	SPECIFICATION
Appearance	Clear,yellow or yellow- green solution
Gardner	≤5 #
CMIT	10.0 ~ 12.0%
MIT	3.0 ~ 5.0%
DCMIT	≤0.1%
CMIT+MIT	14.0 ~ 14.5%
CMIT to MIT ratio	2.5 ~ 3.5%
PH value	2.0 ~ 4.0
Density (@25℃)	1.27 ~ 1.33 g/ml

Application field

The compliant lotion, building materials, electric power metallurgy, oil field chemical engineering, leather, paint coating and spinning prints to dye, the day turn, the antiseptis of cosmetics, deckle, the water transaction etc. realm.



Performance characteristics

1. As a broad-spectrum, long-lasting bactericide to kill many bacteria, fungi and yeasts, the using amount is small.
2. Suitable for use in the medium of the pH value in the range of 2 to 9; free of divalent salt, cross-link no emulsion.
3. Miscible with water; can be added in any production step; easy to use.
4. It has a low toxicity and an appropriate concentration of using, which will lead to no harm completely.

Usage and Cautions

1. In water treatment applications, dilute it into a 1.5% aqueous solution first. Add the solution at a quantity of 80 to 100 ppm for one or two times each week depending on the multiplication of microorganisms like bacteria and algae.
2. Avoid direct eyes' contact with it for a long period. Once the contact happens, rinse eyes with water without delay. No long-term contact with the skin is allowed.
3. Any contact with reducible metals is forbidden during storage, for example, iron and aluminum, so as to avoid decomposition.
4. Not suitable for use in the alkaline medium of $\text{pH} > 9.0$ due to its poor stability. Any combination of this chemical with highly nucleophilic chemicals, like S^{2-} and R-NH_2 , will lead to declined quality or even complete failure of the product.

Packaging

1. 250 kg per IBC drum or 250 kg per drum

Storage and Transportation

To be stored at room temperature in a dark place; with a shelf time of one year