



# THIAZOLES

## React-Rite™ NaMBT-50

Sodium mercaptobenzothiazole  
(NaMBT50)

## OVERVIEW

React-Rite NaMBT-50 is a 50% active solution of sodium mercaptobenzothiazole in water. Commonly used as a water-soluble fast cure accelerator with good activity at low temperatures for vulcanization of natural and synthetic rubbers. NaMBT-50 is easy to use, not requiring dispersion or emulsification.

React-Rite NaMBT-50 can be used as the primary accelerator in a range of latex latices, or as a secondary accelerator with thiurams, thiazoles and guanidines. NaMBT-50 is used in a wide range of rubber products from dipped synthetic rubber gloves, to multiply-dipped medical devices, sprayed sealing and insulation systems, polymer modified asphalt emulsions, and hoses.

In Water Treatment applications, React-Rite NaMBT-50 is a non-foaming anionic reducing agent, compatible with common water treatment additives used for scale and corrosion control. Effective at complexing heavy metals into non-soluble complexes, React-Rite NaMBT-50 is used in waste water treatment for reducing heavy metal ion concentrations in waste water streams from electronics and metal finishing industries, mining and metal recycling operations. Unique metal binding and complexing activity suggests use in filtration systems as chelates and leachate inhibitors, metal recovery and recycling, and as biocide synergists.

In Oil field applications, NaMBT-50 is non-corrosive, stable in the presence of oxygen scavengers, functions as a reverse demulsifier, corrosion and scale inhibitor, flocculent, flotation aid, water clarifier, interface control and anti-foam agent.

## APPLICATIONS AND USE

- Effective fast-cure accelerator in styrene-butadiene rubber (SBR) and acrylonitrile-butadiene rubber (NBR) elastomer production.
- Typical use rate 0.5-3 phr.
- Suitable for use in low/no-sulfur EV cross-linking systems.
- Efficient removal of heavy metal ion concentrations in wastewater streams.
- Non-oxidizing Water Treatment ingredient compatible with most water treatment scale and corrosion control applications.
- Effective non-ferrous soft metal corrosion inhibitor, often used in anti-freeze, industrial coolants and cutting fluids.
- Very low order of toxicity.

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### TECHNICAL INFORMATION

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Sodium mercaptobenzothiazole is readily biodegradable at concentration below toxic limits, and is unlikely to bioconcentrate, since substitution of the mercapto group on benzothiazole reduces its partition coefficient. The fact that sodium mercaptobenzothiazole is a salt further reduces the partition coefficient and thus its tendency to bioaccumulate.

### TYPICAL PROPERTIES

PROPERTY	VALUE
Appearance	Light amber liquid
Color*, Gardner	15 max.
Odor	Characteristic
Assay*, %	49.5-51.0
Free alkalinity (as NaOH)*, %	0.5 max.
Density (25°C), Mg/m <sup>3</sup>	1.26±0.02
* Certified Property	

### PACKAGING & HANDLING

Handle React-Rite products with care. Use in well ventilated area. Avoid contact with eyes, nose or prolonged skin contact. Gloves, protective clothing and safety goggles should be worn when handling React-Rite products. Wash thoroughly after handling material. Refer to the Safety Data Sheet (SDS) for specific information on the safe use, handling, storage and disposal of this product.

React-Rite NaMBT-50 is available in 55 gallon drums (net weight 550 lb.), and 275 gallon totes (net weight 2750 lb.).

React-Rite™ is a trademark of ICT Industries Inc.

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