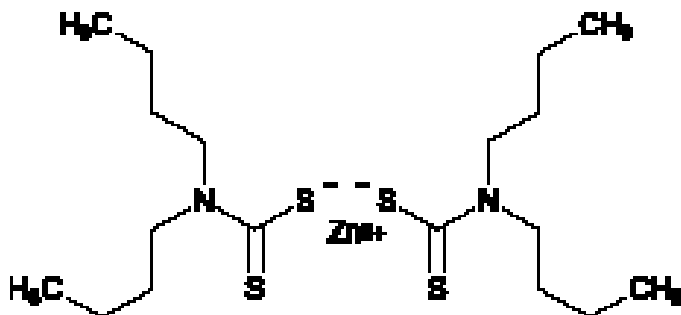




innovative chemical technologies, inc.



DITHIOCARBAMATES

React-Rite™ ZDBCX

Zinc dibutyldithiocarbamate

React-Rite ZDBCX is an activated dithiocarbamate which is a very fast primary or secondary accelerator for natural and synthetic rubbers, and a very rapid accelerator for NR and SBR latexes.

React-Rite ZDBCX is provided in liquid form and is readily emulsifiable.

React-Rite ZDBCX has strong synergy with React-Rite ZIPX to vulcanize rubbers at room temperature.

React-Rite ZDBCX is active at room temperature.

This product has good solubility with polymers.

React-Rite ZDBCX does not require zinc oxide to be effective

Dibutyl structure substantially reduces nitrosation potential when used as an accelerator in the production of rubber for use in food-contact during nitrite curing processes, being compliant under BfR Recommendation XXI, Category 4.

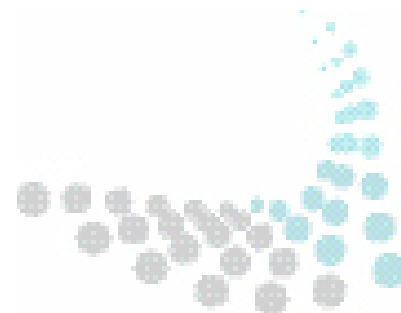
APPLICATIONS AND USE

- Fast primary or secondary accelerator for natural and synthetic rubbers
- Booster for thiazoles
- Used in natural rubber and SBR for dry mixes, cements, proofings, and latex
- Used for preparation of transparent and translucent articles from latex and dry rubber
- Secondary preservative for low-ammonia natural rubber latex

DITHIOCARBAMATES

React-Rite™ ZDBCX

Zinc dibutyldithiocarbamate (ZDBCX)



TECHNICAL INFORMATION

Dithiocarbamates as a class are reaction products of secondary amines, such as dimethyl, dibutyl, dibenzyl and so on, with carbon disulfide.

Monovalent cation salts such as sodium and potassium are typically water soluble, where divalent cation salts such as zinc, nickel and molybdenum, and trivalent salts such as chromium and iron, or flexidentate coordination compounds are not. Optimizing variations in the alkyl component and cation counter-ion yield performance in applications ranging from antimicrobials, corrosion inhibitors, heavy metal complexing, vulcanization and polymerization accelerators, and specialty lubricants.

Dithiocarbamates are often used in combination with thiurams, thiazoles and guanidines for a range of additional properties and applications.

TYPICAL PROPERTIES

PROPERTY	VALUE
Appearance and Color	Slightly turbid liquid Light brown
Odor	Slight
Water solubility	Insoluble, but emulsifiable
Moisture, %*	0.50 maximum
Zinc Content, %*	10.6 to 11.6
Flash Point	79.4°C (175°F)
Storage	Freeze/Thaw stable Recommended storage and handling below 50°C (122°F)
Shelf Life	12 months

* 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 for specific information on the safe use, handling, storage and disposal of this product.

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