



# TECHNICAL INFORMATION SHEET

## COSAN CHEMICAL CORPORATION

400 FOURTEENTH STREET • PO BOX 7 • CARLSTADT, NJ 07072 • (201) 460-9300

### COSAN 101

EPA Reg No. 8489-25

PRODUCT: COSAN 101 is an effective preservative for resin, emulsions, latex paints, adhesives, dispersed colors, pigment sturries, and ready-mix joint cements. This product is a 77.2% aqueous solution of 4,4-dimethyloxazolidine and its trimethyl homolog. This organic molecule contains only four elements: carbon; hydrogen, oxygen; nitrogen and when used at recommended levels will prevent bacterial deterioration of water-based systems

COSAN 101 has antimicrobial activity against a broad spectrum of microorganisms. Listed below are some MINIMUM INHIBITORY CONCENTRATIONS (MIC) of COSAN 101 against various microorganisms. This list is provided to show the broad spectrum activity of COSAN 101 and is not to be construed as a listing of organisms associated with the spoilage of any water-based system. The minimum inhibitory ranges shown are the highest concentrations showing growth and the lowest concentrations showing no growth

ORGANISM
Pseudomonas aeruginosa
Pseudoinonas fluorescens
Aerobacter aerogenes
Bacillus megaterium
Bacillus subtilis
Desulfovibrio desulfuricans
Escherichia coli
Proteus vulgaris
Staphylococcus aureus .

	MIC	
	. 125-250 ppi	1)
	250-500 ppr	r:
	125-250 ppr	r
	125-250 ppr	Tì .
	125 250 ppr	n
	10-25 ppr	רא
	250-500 ppr	n
	125-250 ppr	ก
	,125-250 ppr	Tì
	į	
T C C D D D D D	i	
ACCEPTED	7	::.
	•••••	:
		•
NOV 29 1988	*****	••.
		• •••
Under the real information, the case, and Rodenticide Act, as amended, for the personder monotonic and the control of the case	•••	• • • • •
Engage to Artista fillati	****	•
EPA Reg. No 8489-25		•
	1	. • • . • .
vo raw materials and finished	adiations at its	

USE: COSAN 101 will protect and preserve raw materials-and finished products at use concentrations of 0.1.% to 0.5% based on total weight of composition. When used at the recommended level, thus product will remain effective in the unopened can or package and throughout the substrate's useful \$efvice life. COSAN 101 will maintain its antibacterial efficacy without adversely affecting the physical properties of the formulation in either the wet or dry state. COSAN 101 is non-yellowing and can be added at any point in the production cycle. Good operating procedure should require the incorporation of this preservative early in the manufacturing process. The point of addition will vary with the process being conducted. The only guideline to follow is that after biocide addition the product should not be subjected to temperatures in excess of 175°F

#### TO PROTECT

# USE THE FOLLOWING CONCENTRATIONS BASED ON TOTAL WEIGHT OF SYSTEMS.

Resin Emulsions 0.05 · 0.2%

To protect and preserve resin emulsions, the recommended concentration is based on total weight of system. This level will prevent bacterial spot age from occurring throughout the emulsion's useful service life, which includes transit and storage. The point of preservative addition should be in the cool-down cycle. Where added quantities are required, it can be safely post-added.

Latex Paints 0.1 - 0.3%

report is a can easily be incorporated during any phase of paint manufacture. We recommend the addition immediately after the initial charge of water. At recommended use levels, no adverse physical paint properties have been observed.

in the manufacture of the above materials, preservative addition should come just after the addition of water or similar mert solvent. This will insure good product distribution and provide antibacterial activity to the product at an early stage of manufacture.

FOR SPECIFIC RECOMMENDATIONS PLEASE CONTACT COSAN CHEMICAL CORPORATION MICROBIOLOGICAL ASSAY CAN DETERMINE THE LEVEL REQUIRED FOR YOUR PARTICULAR FORMULA AND DESIRED END USE THE COSAN LABORATORIES ARE READY TO SUPPLY THIS GUIDANCE

#### SPECIFICATIONS:

SPECIFICATIONS:		
Active Ingredients		77 2° c
4,4-dimethyloxazolidine		
3,4,4-trimethyloxazolidine		
Physical Appearance		
Color, Gardner		2 max
Specific Gravity (25/25°C)		
Pounds Per Gallon	* *	8.2
Viscosity (25°C)		app 75cp
pH		
Freezing Point		below ~20°C
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		

NOTICE 11 provided for not stock upones, to present throughten him at skill informulating coatego, adherwer, elastom trackers, in the two Circan Chepturas, Corresponding NMAKES NO REPRESENTATION OR WARRANTY OF Attack to the two tracks of the product product or the stock to the product product product product product or the product or