



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

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SPECIFICATION SHEET

3,4,4'TRICHLOROCARBANILIDE
(TCC - Triclocarban)

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
TCCCIP	1710	101-20-2	August 10, 2010	HHK	Original	TJK

CHARACTERISTICS:	Fine white to grayish-white powder
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SPECIFICATIONS:	Melting Point	250-255 °C
	Assay: HPLC (Area % on dry basis)	97.00% min
	Loss on drying at 110°C for 4 hours (% w/w)	0.25% max
	Chloroanilines	500 ppm max
	Particle size	
	Median-microns	7.0µ
Greater than 20 microns	5.0% max	

STOCKING POINTS:	Not stocked yet
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PACKAGING:	35 kg fiber drum with double polyethylene bag
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HAZARD IDENTIFICATION:	Proper shipping name – Environmentally hazardous substance, solid, n.o.s. UN #3077 Class 9 PG III Label-Oxidizer 5.1
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APPLICATIONS:	Broad-spectrum anti-infective against bacteria, fungi, spores, protozoa, yeasts, saccharomycete and virus. Used in toilet soap, shampoo, lotion, shower cream, cosmetics, toothpaste, deodorant, dishwashing detergents, etc. Can be used as an antiseptic or antifungal agent in glues, paints, fibers, paper processing, cutting oils, leather processing, photographic products, polishes, etc.
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SHELF LIFE AND STORAGE INSTRUCTIONS:	2 years from date of original packaging under adequate storage conditions.
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OTHER:

Used in place of Triclosan

Suggested use level: 0.2-0.5%.

Poor solubility in water. Solubility enhanced by dilution with alcohols and non-ionic surfactants.

Solubility data of TCC at 25°C.

Solvents	% by wgt	Moisturisers	% by wgt
PEG-12	15.5	PEG-15 glyceryl isostearate	14
PEG-8	13.5	PEG-9 cocoglycerides	13
PEG-6	10.12	PEG-13 sunflower glycerides	13
PEG-4	7	PEG-8 laurate	12
Dipropylene glycol	4.8	Trideceth-9 (and) PEG-5 octanoate	11
Ethanol	1	PEG-7 glyceryl cocoate	9.5
Isopropanol	1	PEG-4 laurate	7
Laureth-3	10.5	Polysorbat-20	3.5
Fatty alcohol poly glycol ether	10	PEG-29 castor oil	10
Copolymer PO/EO	10	Capryleth-6 carboxylic acid	9.3
Cocamide DEA	7	TIPA- lauryl sulfate	7
Sodium Laureth sulfate	1	Cocamidopropyl betaine	1

Formulation Guide

TCC added as powder. Used in soap, TCC can be incorporated directly with raw materials as follows:

TCC powder should be well dispersed before addition of pigment, dye, perfume, etc.

Other materials should be incorporated homogeneously. In soap flakes, the soap material should be stabilized. Hydrophilic materials should be added first, followed by hydrophobic materials. Normal order of addition as follows: soap flake, sodium silicate, antioxidant pigment solution, TiO₂, optical brighter, TCC and perfume.

When TCC is added as liquid:

TCC should first be dissolved in suitable liquid, then added to the formulation. The solubility of TCC in non-ionic detergents is about 15-20%. Used in washing powder, TCC should be dissolved in AEO7 or AEO9 firstly then mix it with other materials of washing powder.