

MATERIAL SAFETY DATA SHEET

Total Solutions
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GENERAL INFORMATION NUMBER: (414) 354-6417
CHEMTREC: (800) 424-9300

REVISION DATE: July 22, 2011
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I - Product Identification

Vanquish

PRODUCT CODE: 0175

CHEMICAL FORMULATION: Quaternary-based disinfectant.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 3

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

FLAMMABILITY: 1

REACTIVITY: 0

II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX	PEL	ACGIH	EPA 40 CFR:			CAS #
	%		TLV	302	355	372	
n, n-Dialkyl (C ₈₋₁₀)- n,n-dimethylammonium chloride	3.30	N/E	N/E	N	N	N	68424-95-3
n-Alkyl (C ₁₂₋₁₆) dimethylbenzylammonium chloride	2.20	N/E	N/E	N	N	N	68424-85-1
Poly (oxyethylene) nonylphenol	2.0-5.0	N/E	N/E	N	N	N	9016-45-9
Tetrasodium ethylenediamine tetraacetate	1.1-5.0	N/E	N/E	N	N	N	64-02-8

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): N/D

SPECIFIC GRAVITY (WATER = 1): 1.0

VAPOR PRESSURE (mm Hg): N/D

VOC CONTENT (% by weight): <1.0

VAPOR DENSITY (AIR = 1): N/D

EVAPORATION RATE (WATER = 1): N/D

SOLUBILITY IN WATER: Soluble

pH: 12.40

APPEARANCE AND ODOR: Clear, colorless liquid; detergent odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): > 200

(TEST METHOD): N/D

FLAMMABLE LIMITS IN AIR (VOLUME %)

UPPER: N/D

LOWER: N/D

EXTINGUISHING MEDIA: Water, alcohol foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: Products of combustion are toxic.

