



Pac-ATTACK CS-1

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard (29CFR 1910.1200)

Manufactured For: RAMCO SPECIALTY PRODUCTS, Inc. ♦ 5956 State Road ♦ Bakersfield, CA 93308-3022
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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME	Pac-ATTACK CS-1	PROPER SHIPPING NAME	N/A
PRODUCT NUMBER	19974	DATE PREPARED	06/02/2003
PRODUCT DESCRIPTION	Microbial Cleaner	PREPARED BY	WARREN SQUYRES
Information Phone	(800) 334-7071	24-Hour Emergency Phone No.	(800) 255-3924

NFPA - HMIS CODES

Health	1	Flammability	0	Corrosive	0	Reactivity	0	Personal Protection	B
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SECTION II - MATERIAL IDENTIFICATION AND INFORMATION

Description	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	VOC Grams/Liter	Wt %
NO HAZARDOUS INGREDIENTS						

NOTE: All Pac-Attack Solutions Contain Non-Hazardous Microbial Nutrients and Cleaning Compounds, are pH Balanced, Non-Toxic and Non-Pathogenic, with Non-Ionic Surfactants.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Initial Boiling Point, °F	212°F	Evaporation Rate (n-Bu-Ac=1.0)	1.06
Vapor Pressure for Product	Same as Water	Freezing Point, °F	N/A
Vapor Density for Product (Air = 1.0)	Same as Water	Molecular Weight, Avg.	N/A
Specific Gravity (H2O=1 @ 75°F)	1.06	Viscosity, Typical (cp)	Medium
VOC (Grams/Liter @ 25°C)	None	Appearance and Color	Clear Liquid
Volatiles, % by Volume @ 100°C	None	Odor	Slightly Sweet Aroma
Total VOC %	None	Water Solubility (Wt %)	Complete

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (ASTM D92) C.O.C.	None
Auto Ignition Temperatures	N/A
Flammability Limits in Air	
Lower Explosive Limit Estimated	N/A
Upper Explosive Limit Estimated	N/A
Extinguishing Media	N/A
Unusual Fire and Explosion Hazards	None
Special Fire Fighting Procedures	None



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SECTION V - HEALTH HAZARD DATA AND EMERGENCY FIRST AID PROCEDURES

ENTRY ROUTES	ADVERSE/CHRONIC EFFECTS	FIRST AID PROCEDURES
EYES	Redness and blurred vision. Mist could cause mild eye discomfort.	Flush eyes with water using eyecup or fountain for at least 15 minutes while lifting upper and lower lids open. Seek medical attention if discomfort persists.
INGESTION	Nausea. Will result in vomiting on accidental ingestion.	Seek medical attention if discomfort persists.
INHALATION	None known.	N/A
SKIN	May irritate hyper-sensitive individuals.	Remove contaminated clothing. Wash exposed area with soap and water.
CARCINOGEN	NONE	MEDICAL CONDITIONS TO AVOID
		None known

SECTION VI - REACTIVITY DATA

STABILITY	Stable - No conditions to avoid established or known.
HAZARDOUS POLYMERIZATION	Will not occur - No conditions known.
INCOMPATIBILITY	Strong Oxidizers
HAZARDOUS DECOMPOSITION	Oxides of Carbon

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED - Flush area with water and impound.	
WASTE DISPOSAL	Disposal of in compliance with Federal, State, and Local laws. Any approved method for diluted surfactants. Product is highly biodegradable.
HANDLING & STORAGE	None in normal shipping, handling, storage or use. Prolonged storage of product in temperatures 120°F and above decreases product effectiveness.
OTHER PRECAUTIONS	KEEP OUT OF REACH OF CHILDREN. Read and follow label directions. For Industrial/Institutional use only.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (Specify Type)	Not needed for normal use in accordance with label directions.
VENTILATION	Local exhaust is usually adequate.
PROTECTIVE GLOVES	Not needed for normal use in accordance with label directions.
EYE PROTECTION	Approved safety glasses with side shields or goggles.
OTHER PROTECTIVE CLOTHING/EQUIPMENT	Not needed for normal use in accordance with label directions.
WORK HYGIENIC PRACTICES	Employees must practice good personal hygiene; washing exposed areas of skin several times daily and before eating, drinking or smoking. Launder contaminated clothing before reuse.

SECTION IX - TRANSPORTATION DATA

PROPER SHIPPING NAME	N/A
DOT ID NUMBER	N/A
DOT HAZARD CLASS	N/A

The information and recommendations set forth herein are presented in good faith and believed to be correct and reliable. RAMCO SPECIALTY PRODUCTS, Inc. makes no representation as to the completeness or accuracy thereof and supplies information upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use.

MSDS 2004