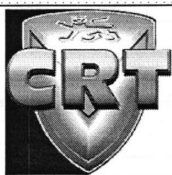


MATERIAL SAFETY DATA SHEET

OSHA - Meets 29 CFR 1910.1200 Standards



HMIS HAZARD RATINGS

HEALTH	1	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	1	1 = SLIGHT	4 = EXTREME
REACTIVITY	0	2 = MODERATE	

TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Not Regulated	REF: Not Applicable
HAZARD CLASS / PKG GRP: Not regulated	LABEL: None Required
IDENTIFICATION NUMBER: None	

SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)

PANGUARD

Page 1 of 2

MANUFACTURER'S NAME

Controlled Release Technologies, Inc.

EMERGENCY TELEPHONE NUMBER

CHEM • TEL (800) 255-3924 Outside USA (813) 248-0585

ADDRESS (NUMBER, STREET, P.O. BOX)

1016 Industry Drive

TELEPHONE NUMBER FOR INFORMATION

(704) 487-0878

(CITY, STATE AND ZIP CODE)

Shelby, NC 28152

DATE PREPARED: May 10, 2002

SUPERSEDES: January 18, 1998

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS

(SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))

CAS #

%

(OPTIONAL)

OSHA PEL

ACGIH TWA

SARA

RQ

PPM MG/M3 PPM MG/M3 TITLE III LBS

alkyl Dimethyl Benzyl Ammonium Chloride

68424-85-1

not established

SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: None expected, however, certain individuals may experience minor nausea or headaches.

Remove affected person to fresh air; if symptoms persist seek medical attention.

SKIN: None expected, however, prolonged contact may cause irritation.

Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

EYES: This product is an eye irritant. Contact with the eyes will cause irritation.

Remove contact lenses. Flush eyes with water for 15 minutes; if irritation persists, seek medical attention.

INGESTION: May cause gastric distress, vomiting and diarrhea.

Give two glasses of water for dilution; DO NOT induce vomiting; never give anything by mouth to an unconscious person; seek medical attention.

CARCINOGENICITY

NTP?

No

IARC MONOGRAPHS?

No

OSHA REGULATED?

No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

Form revised 09 / 01

MATERIAL SAFETY DATA SHEET		
IDENTITY (AS USED ON LABEL AND LIST) PANGUARD TYPE CU / PANGUARD HC		Page 2 of 2 Date: May 10, 2002
SECTION 4 - FIRE FIGHTING MEASURES		
FLASH POINT (METHOD USED) > 200° F (> 93.3° C)	NFPA RATING IIIB	FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable
EXTINGUISHING MEDIA Carbon dioxide, water fog, dry chemical, chemical foam		
SPECIAL FIRE FIGHTING PROCEDURES Self - contained respiratory equipment. Caution - material will support combustion!		
UNUSUAL FIRE AND EXPLOSION HAZARDS None		
SECTION 5 - ACCIDENTAL RELEASE MEASURES		
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills - wash to sanitary sewer with plenty of water. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. Wash area with plenty of water. Do not discharge into lakes, ponds, streams or public waters.		
SECTION 6 - HANDLING AND STORAGE		
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Keep this and other chemicals out of reach of children.		
SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION		
RESPIRATORY PROTECTION (SPECIFY TYPE): None required		
VENTILATION MECHANICAL (GENERAL):	LOCAL EXHAUST: Not necessary Recommended	SPECIAL: None OTHER: None
PROTECTIVE GLOVES: Neoprene or rubber gloves with cuffs		EYE PROTECTION: Protective eyeglasses or chemical safety goggles.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyebath nearby		
WORK / HYGIENIC PRACTICES: Practice safe workplace habits.		
SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES		
BOILING POINT Not applicable	SPECIFIC GRAVITY (WATER = 1) Not determined	
VAPOR PRESSURE (MM Hg) Not applicable	pH 6.5 - 8.5	
VAPOR DENSITY (AIR = 1) Not applicable	EVAPORATION RATE (WATER = 1) Not applicable	
SOLUBILITY IN WATER Appreciable (45%)	% VOLATILE (BY WEIGHT) < 10%	
APPEARANCE AND ODOR Solid, lemon odor		
SECTION 9 - STABILITY AND REACTIVITY		
STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures	
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids		
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, nitrous oxides; ammoniacal vapors, and smoke may be produced.		
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None	
SECTION 10 - DISPOSAL CONSIDERATIONS		
WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations; this product is toxic to fish, do not discharge into lakes, ponds, streams or public waters. Product is classified as non - hazardous, however, non-hazardous materials may become hazardous waste upon contact with other products. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.		
The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.		