

IDENTIFICATION	MATERIAL SAFETY DATA SHEET				ADDRESS: Reaction Engineering Inc. P.O. Box 1452 Dodge City, Ks. 67801-1452	
	"ESSENTIALLY SIMILAIR" TO OSHA FORM 20					
	PRODUCT NAME RXN-3200		DATE 12/01/06		EMERGENCY PHONE NUMBERS	
	CHEMICAL NAME AND MOLECULAR FORMULA PROPRIETARY FORMULATION				BUSINESS: (620) 225-2180 OTHER: (800) 255-3924	
INGREDIENTS	SYNONYMS NONE				CAS NO. NOT APPLICABLE FOR BLENDS CHEMICAL FAMILY WATER TREATING	
	MATERIALS OR COMPONENTS		% W/W		HAZARD DATA	
	1-HYDROXYETHYLIDENE-1, 1-DIPHOSPHONIC ACID		<15		NON ESTABLISHED CORROSIVE HAZARD	
	SODIUM HYDROXIDE		<10		2mg/M^3 - OSHA PEL 2mg/M^3 - ACGIH TLV CORROSIVE HAZARD	
SHIPPING INFORMATION		WATER TREATMENT COMPOUND, LIQUID CORROSIVE MATERIAL NA-1760 CORROSIVE LABEL REQUIRED				
PHYSICALS	BOILING POINT/RANGE °C 212 °F		MELTING POINT °C NE °F		FREEZING POINT °C NE °F	
	SPECIFIC GRAVITY (H2O=1) 1.12 @ 20/20 °C		VAPOR PRESSURE (mm Hg) NE @ °C		VAPOR DENSITY (AIR=1) NE	
	SOLUBILITY IN H2O COMPLETE		% VOLATILES BY VOLUME >50		EVAPORATION RATE <1 <input type="checkbox"/> ETHER=1 <input checked="" type="checkbox"/> WATER=1 <input type="checkbox"/> BUTYLACETATE=1	
	APPEARANCE AND ODOR DARK CLEAR LIQUID		OTHER: NONE			
EXPLORATION	FLASH POINT °C °F		TEST METHOD NONE		FLAMMABLE LIMITS LOWER NA % UPPER NA	
	EXTINGUISHING MEDIA <input checked="" type="checkbox"/> WATER-SPRAY <input checked="" type="checkbox"/> WATER-FOG <input checked="" type="checkbox"/> WATER-STREAM <input checked="" type="checkbox"/> CO2 <input checked="" type="checkbox"/> DRY-CHEMICAL <input checked="" type="checkbox"/> ALCOHOL-FOAM <input checked="" type="checkbox"/> FOAM <input checked="" type="checkbox"/> EARTH/SAND					
	SPECIAL FIRE FIGHTING PROCEDURES <input type="checkbox"/> DON'T ENTER BUILDING <input type="checkbox"/> ALLOW FIRE TO BURN <input type="checkbox"/> WATER MAY CAUSE FROTHING <input type="checkbox"/> DON'T USE WATER <input checked="" type="checkbox"/> USE SELF CONTAINED BREATHING APPARATUS					
	UNUSUAL FIRE AND EXPLOSION HAZARDS <input checked="" type="checkbox"/> DUST EXPLOSION HAZARD <input type="checkbox"/> SENSITIVE TO SHOCK <input type="checkbox"/> CONTAMINATION <input type="checkbox"/> TEMPERATURE OTHER: NONE KNOWN					
REACTIVITY	STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE		CONDITIONS CONTRIBUTING TO INSTABILITY <input type="checkbox"/> THERMAL DECOMPOSITION <input type="checkbox"/> PHOTO DEGRADATION <input type="checkbox"/> POLYMERIZATION <input checked="" type="checkbox"/> CONTAMINATION			
	INCOMPATIBILITY - AVOID CONTACT WITH <input type="checkbox"/> STRONG ACIDS <input type="checkbox"/> STRONG ALKALIS <input checked="" type="checkbox"/> STRONG OXIDIZERS OTHER:					
	HAZARDOUS DECOMPOSITION PRODUCTS - THERMAL AND OTHER (LIST) MAY EVOLVE COc, CO3, AND PHOSPHINES; ALSO OXIDES OF NITROGEN					
	CONDITION TO AVOID <input type="checkbox"/> HEAT <input type="checkbox"/> OPEN FLAMES <input type="checkbox"/> SPARKS <input type="checkbox"/> IGNITION SOURCES OTHER: NONE KNOWN					
SPILLAGE	STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED <input type="checkbox"/> FLUSH WITH WATER <input checked="" type="checkbox"/> ABSORB WITH SAND OR INERT MATERIAL <input type="checkbox"/> NEUTRALIZE <input checked="" type="checkbox"/> SWEEP/SCOOP UP AND REMOVE <input type="checkbox"/> KEEP UPWIND <input checked="" type="checkbox"/> PREVENT SPILL <input checked="" type="checkbox"/> DISPOSE IMMEDIATELY OTHER:					
	WASTE DISPOSAL METHOD- DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATION					

CONTINUED ON NEXT PAGE

NA - NOT APPLICABLE NE - NOT ESTABLISHED

T O X I C I T Y	ORAL (ACUTE): IRRITANT, POSSIBLY CORROSIVE	
	DERMAL (ACUTE): IRRITANT	
	EYE: POSSIBLY CORROSIVE	INHALATION: IRRITANT
CHRONIC, SUBCHRONIC, ETC. THIS PRODUCT IS NOT CONSIDERED TO BE A CARCINOGEN BY NTP, IARC, OR OSHA.		
E F F E C T S O F H E A L T H E X P O S U R E I N F O R M A T I O N	PERMISSIBLE EXPOSURE LIMIT (SPECIFY IF TLVA/TWA OR CEILING[C])	
	ACGIH 19__ NA OSHA 19__ NA OTHER: NONE	
	IRRITATION <input checked="" type="checkbox"/> SKIN <input checked="" type="checkbox"/> SEVERE <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> EYE <input checked="" type="checkbox"/> SEVERE <input type="checkbox"/> MODERATE <input type="checkbox"/> MILD (TRANSIENT)	
	CORROSIVITY <input type="checkbox"/> SKIN <input type="checkbox"/> 4 HRS. (DOT) <input type="checkbox"/> 24 HRS. (CPSC) <input checked="" type="checkbox"/> EYE <input type="checkbox"/> MAY CAUSE BLINDNESS	
	SENSITIZATION <input type="checkbox"/> SKIN <input type="checkbox"/> RESPIRATORY <input type="checkbox"/> ALLERGEN	
	INHALATION EFFECTS <input type="checkbox"/> NARCOTIC <input type="checkbox"/> CYANOSIS <input type="checkbox"/> ASPHYXANT	
	LUNG EFFECTS (SPECIFY): NE	
	OTHER (SPECIFY): NE <input type="checkbox"/> REPEATED CONTACT SKIN DEFATTER	
	INGESTION <input type="checkbox"/> INDUCE VOMITING <input checked="" type="checkbox"/> DO NOT INDUCE VOMITING <input checked="" type="checkbox"/> GIVE PLENTY OF WATER <input checked="" type="checkbox"/> GET MEDICAL ATTENTION OTHER:	
	DERMAL <input checked="" type="checkbox"/> FLUSH WITH SOAP AND WATER <input checked="" type="checkbox"/> GET MEDICAL ATTENTION <input checked="" type="checkbox"/> CONTAMINATED CLOTHING-LAUNDER <input checked="" type="checkbox"/> CONTAMINATED SHOES-DESTROY OTHER:	
F I R M A T I O N	EYE CONTACT <input checked="" type="checkbox"/> FLUSH WITH PLENTY OF WATER FOR 15 MINUTES <input checked="" type="checkbox"/> GET MEDICAL ATTENTION OTHER:	
	INHALATION <input checked="" type="checkbox"/> REMOVE TO FRESH AIR <input checked="" type="checkbox"/> IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION <input checked="" type="checkbox"/> GIVE OXYGEN <input checked="" type="checkbox"/> GET MEDICAL ATTENTION OTHER:	
	VENTILATIONS REQUIREMENTS - ALWAYS MAINTAIN EXPOSURE BELOW PERMISSIBLE EXPOSURE LIMITS	
	<input type="checkbox"/> CONSULT AND INDUSTRIAL HYGIENIST <input type="checkbox"/> LOCAL EXHAUST <input checked="" type="checkbox"/> USE WITH ADEQUATE VENTILATION <input checked="" type="checkbox"/> CHECK FOR CONTAMINANT AND OXYGEN DEFICIENCY	
S P E C I A L P R O T E C T I O N	OTHER:	
	EYE <input checked="" type="checkbox"/> FACE SHIELD AND GOGGLES <input checked="" type="checkbox"/> SAFETY GLASSES <input checked="" type="checkbox"/> GOGGLES	
	HAND (GLOVE TYPE) <input checked="" type="checkbox"/> BUTYL RUBBER <input type="checkbox"/> POLYVINYL ALCOHOL <input type="checkbox"/> POLYVINYL CHLORIDE <input checked="" type="checkbox"/> NEOPRENE <input checked="" type="checkbox"/> NATURAL RUBBER <input type="checkbox"/> POLYETHYLENE	
	RESPIRATOR TYPE - USE ONLY NIOSH APPROVED EQUIPMENT <input type="checkbox"/> SELF-CONTAINED <input type="checkbox"/> SUPPLIED AIR <input checked="" type="checkbox"/> CAN OR CARTRIDGE GAS OR VAPOR <input checked="" type="checkbox"/> FILTER-DUST, FUME, MIST OTHER:	
P R E C A U T I O N	OTHER PROTECTIVE EQUIPMENT <input checked="" type="checkbox"/> RUBBER BOOTS <input checked="" type="checkbox"/> APRON OTHER: SAFETY SHOWER AND EYE WASH	
	PRECAUTIONARY LABELING <input checked="" type="checkbox"/> WASH AFTER HANDLING <input checked="" type="checkbox"/> DON'T GET IN EYES, SKIN, CLOTHING <input checked="" type="checkbox"/> DO NOT BREATHE, GAS DUST, VAPOR <input checked="" type="checkbox"/> KEEP CONTAINER CLOSED <input checked="" type="checkbox"/> KEEP AWAY FROM HEAT, SPARKS <input checked="" type="checkbox"/> STORE IN CLOSED CONTAINER	
	<input type="checkbox"/> DON'T STORE NEAR COMBUSTIBLES <input checked="" type="checkbox"/> KEEP FROM CONTACT WITH CLOTHING <input type="checkbox"/> EMPTY CONTAINER MAY CONTAIN HAZARDOUS <input type="checkbox"/> USE EXPLOSION PROOF EQUIPMENT OTHER:	
OTHER HANDLING AND STORAGE CONDITIONS:		
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