

IDENTIFICATION	MATERIAL SAFETY DATA SHEET "ESSENTIALLY SIMILAIR" TO OSHA FORM 20				ADDRESS: Reaction Engineering Inc. P.O. Box 1452 Dodge City, Ks. 67801-1452	
	PRODUCT NAME RXN-21		DATE 12/01/06		EMERGENCY PHONE NUMBERS	
	CHEMICAL NAME AND MOLECULAR FORMULA PROPRIETARY FORMULATION				BUSINESS: (620) 225-2180 OTHER: (800) 255-3924	
	SYNONYMS NONE				CAS NO. NOT APPLICABLE FOR BLENDS CHEMICAL FAMILY WATER TREATING CHEMICALS	
INGREDIENTS	MATERIALS OR COMPONENTS			% W/W	HAZARD DATA	
	SODIUM METABISULFITE (CAS NO. 7681-57-4) POTASSIUM HYDROXIDE (CAS NO. 1310-58-3)			NA NA	TLV = 5 ppm ACGIH (Irritant Hazard) TLV = 5 mg/M3 ACGIH (Corrosive, Toxic Hazard)	
SHIPPING INFORMATION		CORROSIVE LIQUID, N.O.S. (Contains Potassium Hydroxide) UN-1760, CORROSIVE				
PHYSICALS	BOILING POINT/RANGE °C 212 °F		MELTING POINT °C NA °F		FREEZING POINT °C NE °F	
	SPECIFIC GRAVITY (H2O=1) 1.25 @ 20/20		VAPOR PRESSURE (mm Hg) °C NE @ °C °F		MOLECULAR WEIGHT NA	
	SOLUBILITY IN H2O COMPLETE		% VOLATILES BY VOLUME >75		VAPOR DENSITY (AIR=1) NE	
	APPEARANCE AND ODOR CLEAR LIQUID, SLIGHT ODOR		EVAPORATION RATE NE <input type="checkbox"/> ETHER=1 <input checked="" type="checkbox"/> WATER=1 <input type="checkbox"/> BUTYLACETATE=1 OTHER:			
EXPLOSION AND DATA	FLASH POINT NONE °C 212 °F		TEST METHOD		FLAMMABLE LIMITS LOWER NE % UPPER NE	
	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		AUTOIGNITION TEMP/FIRE POINT °C NA °F			
	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					
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 type="checkbox"/> CONTAMINATION			
	INCOMPATIBILITY - AVOID CONTACT WITH <input checked="" type="checkbox"/> STRONG ACIDS <input type="checkbox"/> STRONG ALKALIS <input checked="" type="checkbox"/> STRONG OXIDIZERS OTHER:					
	HAZARDOUS DECOMPOSITION PRODUCTS - THERMAL AND OTHER (LIST) SULFUR DIOXIDE GAS					
	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 OR	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 checked="" type="checkbox"/> KEEP UPWIND <input checked="" type="checkbox"/> PREVENT SPILL <input checked="" type="checkbox"/> DISPOSE IMMEDIATELY OTHER:					
	WASTE DISPOSAL METHOD- Consult federal, state, or local authorities In accordance with Federal, State, and Local Regulations.					

CONTINUED ON
NEXT PAGE

NA - NOT APPLICABLE

NE - NOT ESTABLISHED

TOXICITY	ORAL (ACUTE): Irritating to mouth and Gastro-Intestinal System. DERMAL (ACUTE): Irritating EYE: Irritating, May Cause Burning INHALATION: Possible Irritation to Mucous Membranes.	
	CHRONIC, SUBCHRONIC, ETC. NOT KNOWN NOTE: This product is not considered a Carcinogen by the NTP, IARC, OSHA, or EPA.	
EFFECTS OF EXPOSURE	PERMISSIBLE EXPOSURE LIMIT (SPECIFY IF TLVA/TWA OR CEILING[C]) ACGIH 19__ NA OSHA 19__ NA OTHER:	
	IRRITATION <input checked="" type="checkbox"/> SKIN <input type="checkbox"/> SEVERE <input checked="" type="checkbox"/> MODERATE <input checked="" type="checkbox"/> EYE <input type="checkbox"/> SEVERE <input checked="" 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 checked="" type="checkbox"/> ALLERGEN INHALATION EFFECTS <input type="checkbox"/> NARCOTIC <input type="checkbox"/> CYANOSIS <input type="checkbox"/> ASPHYXANT	
	LUNG EFFECTS (SPECIFY): NOT KNOWN	
	OTHER (SPECIFY): <input checked="" type="checkbox"/> REPEATED CONTACT SKIN DEFATTER	
FIPST AIC	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:	
	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 type="checkbox"/> GIVE OXYGEN <input type="checkbox"/> GET MEDICAL ATTENTION OTHER:	
SPECIAL PROTECTION	VENTILATIONS REQUIREMENTS - ALWAYS MAINTAIN EXPOSURE BELOW PERMISSIBLE EXPOSURE LIMITS <input type="checkbox"/> CONSULT AND INDUSTRIAL HYGIENIST <input checked="" type="checkbox"/> LOCAL EXHAUST <input checked="" type="checkbox"/> USE WITH ADEQUATE VENTILATION <input type="checkbox"/> CHECK FOR CONTAMINANT AND OXYGEN DEFICIENCY OTHER:	
	EYE <input 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 OTHER (SPECIFY):	
	RESPIRATOR TYPE - USE ONLY NIOSH APPROVED EQUIPMENT <input type="checkbox"/> SELF-CONTAINED <input type="checkbox"/> SUPPLIED AIR <input type="checkbox"/> CAN OR CARTRIDGE GAS OR VAPOR <input checked="" type="checkbox"/> FILTER-DUST, FUME, MIST OTHER:	
	OTHER PROTECTIVE EQUIPMENT <input checked="" type="checkbox"/> RUBBER BOOTS <input checked="" type="checkbox"/> APRON OTHER: SAFETY SHOWER & EYEWASH	
	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:	
SPECIAL	OTHER HANDLING AND STORAGE CONDITIONS: KEEP THIS AND ALL OTHER CHEMICALS OUT OF REACH OF CHILDREN	
	THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS, AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE AND THE CONDITIONS OF HANDLING AND USE, OR MISUSE ARE BEYOND OUR CONTROL. WE MAKE NO WARRANTY, EITHER EXPRESSED OR IMPLIED. WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIM ALL LIABILITY FOR RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.	