

# KC-549

## MATERIAL SAFETY DATA SHEET

PRODUCT INFORMATION						
Product Use:	Chlorinated Alkaline Cleaner					
Manufacturer:	Packers Chemical, Inc. 3729 Peddle Hollow Rd., Kieler, WI 53812 USA					
PREPARATION INFORMATION						
Prepared On: 05/2012	Prepared By: Technical Department				Supersedes: NAP	
Emergency Phone Number:	Chemtrec 1-800-424-9300					
NAV = Not Available	NAP = Not Applicable		NE = Not Established		DG = Dangerous Goods	
The information here is presented in good faith, but no warranty, expressed or implied, is given. The health hazards given on this MSDS apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of exposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.						
HAZARDOUS INGREDIENTS						
Ingredient(s)	CAS#	% by Wt.	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Sodium Hydroxide	1310-73-2	<12	2 mg/m <sup>3</sup>	NE	2 mg/m <sup>3</sup>	NE
Sodium Hypochlorite	7681-52-9	<3	1 ppm (as chlorine gas)	NE	1 ppm (as chlorine gas)	NE
PHYSICAL DATA						
Physical State:	Liquid	Specific Gravity:	1.16 g/cc	Vapor Pressure:	NE	
Coeff. of Water/Oil Dist.:	NAV	Vapor Density:	>1	Evaporation Rate:	<1	
Boiling Point:	210-220 °F	Freezing Point:	~0°F	pH, 2% solution:	12-13	
Odor Threshold:	NAV	Appearance & Odor:	Clear light yellow liquid with chlorine odor.			
Solubility in Water:	Miscible					
FIRE AND EXPLOSION HAZARD DATA						
Flash Point:	Non-combustible		Upper Explosion Limit:		NE	
Lower Explosion Point:	NE		Auto Ignition Temperature:		NE	
Hazardous Polymerization:	Will not occur		Extinguishing Media:		Dry chemicals, water fog, CO <sub>2</sub> , foam	
Special Fire Fighting Procedures:	Cool fire exposed containers with spray. Must wear MSHA/NIOSH approved self contained breathing apparatus.					
Conditions to avoid:	Not known					
Unusual Fire / Explosion Hazards:	Chlorine gas liberated during combustion. Carbon monoxide/carbon dioxide gases liberated during combustion.					
TOXICOLOGICAL PROPERTIES						
Route of Entry:	Skin contact, inhalation, eye contact, ingestion					
Effects of Acute Exposure:	Corrosive to skin. Can cause eye damage if not promptly treated. Harmful or fatal when swallowed. Harmful when inhaled.					
Effects of Chronic Exposure:	NAV		Exposure Limit:		NAV	
Irritancy of Product	NAV		Sensitization of Product:		NAV	
Carcinogenicity:	No		Reproductive Toxicity:		NAV	
Teratogenicity:	NAV		Mutagenicity:		NAV	
Synergistic Material:	NAV					
FIRST AID MEASURES						
Eye Contact:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes. Get medical attention at once.					
Skin Contact:	Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a doctor for treatment advice.					
Ingestion:	Do not induce vomiting. Have a conscious victim drink water to dilute. Never give anything by mouth to an unconscious victim. Get medical help immediately.					
Inhalation:	If large quantity of this product inhaled, move person to fresh air. Administer oxygen if breathing is difficult. Get medical attention immediately.					
PREVENTIVE MEASURES						
Storage Requirements:	Keep container closed. Store in a cool, dry location. Do not reuse container.					
Leak & Spill Procedures:	Absorb into earth, clay, or commercial absorbent, not sawdust, and contain for disposal. Do not attempt to reuse or repackage contaminated material. Remainder may be rinsed to a sewer, without any attempt at neutralization.					
Waste Disposal:	Dispose of in accordance with all local, state and federal regulations.					
PERSONAL PROTECTIVE EQUIPMENT						
Eye:	Splash proof chemical goggles and/or face shield					
Hands:	Rubber or neoprene gloves					
Respiratory:	NIOSH approved self contained breathing apparatus for exposure above PEL.					
Other:	Impervious apron, eyewash facility					
Ventilation:	General exhaust acceptable if PEL is not exceeded.					
HAZARD RATINGS						
NFPA	Health-2;	Flammability-0;	Instability-1;	Special-Corrosive, Alkaline		
HMIS	Health-2;	Flammability-0;	Physical Hazard-1;	PPE-C (glasses, gloves, apron)		
REACTIVITY DATA						
Condition of Instability:	This product will gradually lose some of its oxidizing power over time. Elevated temperatures and contaminants can rapidly accelerate decomposition, possibly leading to a hazardous condition. Maintain storage and handling conditions rigidly.					
Incompatibilities & Reactivities:	Acids, amphoteric metals (aluminum, copper, zinc)					
Hazardous Decomposition Products:	Chlorine gas released on contact with acids, or during thermal decomposition. Carbon monoxide/carbon dioxide gases liberated during combustion.					
SPECIAL SHIPPING INFORMATION						
<u>Proper Shipping Name</u>	<u>DOT Hazard Class</u>		<u>DOT I.D. Number</u>		<u>DOT Packing Group</u>	
Corrosive liquids, n.o.s. (Sodium Hydroxide, Sodium Hypochlorite)	8		UN 1760		II	