

**MATERIAL SAFETY DATA SHEET**

CLOSED LOOP TREATMENT K 5034-1

Latest Revision Date...06/19/07

Print Date.....02/14/08

**SECTION 1**

**MANUFACTURER INFORMATION**

QUES INDUSTRIES, INC.  
5420 W. 140TH STREET  
CLEVELAND, OHIO 44142  
PH (216) 267-8989 FAX (216) 267-8998

FOR CHEMICAL EMERGENCY  
CALL INFOTRAC @ 1-800-535-5053  
24 HRS/DAY, 7 DAYS/WEEK

**SECTION 2**

**PRODUCT IDENTIFICATION**

PRODUCT NUMBER..... Q K5034-1  
TRADE NAME OR CHEMICAL NAME... CLOSED LOOP TREATMENT K 5034-1  
SYNONYMS..... NA  
CHEMICAL FAMILY..... Cooling Water Treatment- Soft Water  
NFPA - HEALTH HAZARD..... 3  
FIRE HAZARD..... 0  
REACTIVITY HAZARD..... 0  
NFPA SCALE..... 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant  
KEY..... NA= Not Applicable ND= Not Determined

**SECTION 3**

**HAZARDOUS INGREDIENTS**

CHEMICAL NAME(S)	CAS NUMBER	% WT	TLV-TWA	PEL	SEC.313	CARCINOGEN?
Potassium Hydroxide	1310-58-3	<10	2 mg/m3	2 mg/m3	No	No

**SECTION 4**

**SHIPPING DATA**

D.O.T. PROPER SHIPPING NAME... NA  
D.O.T. HAZARD CLASS..... NA  
D.O.T. LABELS REQUIRED..... NA  
UN/NA I.D. NUMBER..... NA  
PACKAGING GROUP..... NA  
NON-BULK SHIPPING NAME..... Compound, Industrial Process Water Treating , Liquid  
BULK SHIPPING NAME..... Same

**SECTION 5**

**PHYSICAL DATA**

BOILING/FREEZING POINT @760 mmHg... ND  
pH..... 13.4  
VAPOR PRESSURE mm Hg @20° C..... ND  
VAPOR DENSITY (Air = 1)..... >1  
PERCENT VOLATILE BY WEIGHT (%)..... 50  
SPECIFIC GRAVITY @20°C..... 1.332  
SOLUBILITY IN WATER..... Complete  
EVAPORATION RATE..... (Water=1) <1  
APPEARANCE AND ODOR..... Clear, straw colored liquid with mild odor.

**SECTION 6**

**FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (Test Method)..... NA  
AUTOIGNITION TEMPERATURE..... NA  
FLAMMABILITY LIMITS IN AIR (% V)... NA

SECTION 6FIRE AND EXPLOSION HAZARD DATA

CONT'D

EXTINGUISHING MEDIA..... Not combustible  
 SPECIAL FIRE FIGHTING PROCEDURES... NA  
 UNUSUAL FIRE & EXPLOSION HAZARDS... Cool containers exposed to fire to prevent steam generated explosions.

SECTION 7REACTIVITY DATA

PRODUCT STABILITY..... Stable  
 Conditions to Avoid..... Contamination, temperatures above 220°F (105°C)  
 CHEMICAL INCOMPATIBILITY..... Strong acids  
 HAZARDOUS DECOMPOSITION PRODUCTS... Carbon monoxide, carbon dioxide, oxides of nitrogen  
 HAZARDOUS POLYMERIZATION..... Will Not Occur

SECTION 8HEALTH HAZARD DATA

SKIN CONTACT... May be irritating to skin, mildly corrosive upon prolonged contact.  
 EYE CONTACT.... Severe irritation and/or burns may result following contact.  
 INHALATION..... Irritation and burns may occur to respiratory system.  
 INGESTION..... Irritation and/or burns to entire gastrointestinal system may result.

SECTION 9EMERGENCY AND FIRST AID PROCEDURES

SKIN.....Remove contaminated clothing and flush exposed skin with soap and water. If irritation persists or develops, get medical attention. Launder contaminated clothing before reuse.  
 EYES.....Immediately flush eyes with large amounts of water for 15 minutes and get medical attention.  
 INGESTION....If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.  
 INHALATION...Move to fresh air. Aid in breathing, if necessary, and get medical attention.

SECTION 10ENVIRONMENTAL DATA

SPILL OR LEAK PROCEDURES... Avoid skin contact. Neutralize and absorb with sand or inert material and place in suitable container for disposal. Flush neutralized residues to sanitary sewer.  
 WASTE DISPOSAL METHOD..... Corrosive. Dispose of in accordance with all federal, state and local regulations.  
 HAZARDOUS WASTE 40CFR261... Yes. Hazardous Waste Number: D002  
 CONTAINER DISPOSAL..... Empty containers may contain residuals. Thoroughly clean, then offer for recycling, reuse, or disposal in accordance with governmental regulations.

SECTION 11SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION.....Respirator not required with most applications.  
 VENTILATION.....Local exhaust is generally sufficient to minimize exposure.  
 PROTECTIVE CLOTHING.....Neoprene gloves, apron, boots - as necessary to prevent skin contact.  
 EYE PROTECTION.....Chemical goggles.  
 OTHER PRECAUTIONS.....Safety shower and eyewash fountains should be easily accessible.

SECTION 12SUPPLIER INFORMATION

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of manufacturer. The data on this sheet relates only to the specific material designated herein. Manufacturer assumes no legal responsibility for use or reliance upon this data.