

MATERIAL SAFETY DATA SHEET

MICROBIOCIDE 2115

Latest Revision Date...08/07/06

Print Date.....03/26/07

SECTION 1 MANUFACTURER INFORMATION

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

SECTION 2 PRODUCT IDENTIFICATION

PRODUCT NUMBER..... Q 2115
TRADE NAME OR CHEMICAL NAME... MICROBIOCIDE 2115
SYNONYMS..... 1,5-Pentanedial, Aqueous Glutaraldehyde Solution
CHEMICAL FAMILY..... Aldehydes
NFPA - HEALTH HAZARD..... 2
FIRE HAZARD..... 0
REACTIVITY HAZARD..... 1
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?
Glutaraldehyde	111-30-8	<20	0.2 ppm	Not Established	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..... Compounds, Industrial Process Water Treating, Liquid
BULK SHIPPING NAME..... Same

SECTION 5 PHYSICAL DATA

BOILING/FREEZING POINT @760 mmHg... 213°F (100°C) / 21°F (-6.5°C)
pH..... 3.1 to 4.5 @ 25°C
VAPOR PRESSURE mm Hg @20° C..... ~16
VAPOR DENSITY (Air = 1)..... 0.71
PERCENT VOLATILE BY WEIGHT (%)..... 100
SPECIFIC GRAVITY @20°C..... 1.042
SOLUBILITY IN WATER..... Complete
EVAPORATION RATE..... (BuAc-1) 0.84
APPEARANCE AND ODOR..... Transparent colorless liquid with characteristic aldehyde odor.

SECTION 6 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Test Method)..... None
AUTOIGNITION TEMPERATURE..... NA
FLAMMABILITY LIMITS IN AIR (% V).... NA

MICROBIOCID 2115

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

CONT'D

EXTINGUISHING MEDIA..... Not combustible
SPECIAL FIRE FIGHTING PROCEDURES... Self-contained breathing apparatus. Vapors may be very irritating.
UNUSUAL FIRE & EXPLOSION HAZARDS... NA

SECTION 7

REACTIVITY DATA

PRODUCT STABILITY..... Stable
Conditions to Avoid..... Avoid high temperatures and evaporation of water.
CHEMICAL INCOMPATIBILITY..... Alkalies catalyze an aldol-type condensation (exothermic, but not expected to be violent)
HAZARDOUS DECOMPOSITION PRODUCTS... Burning can produce carbon monoxide, carbon dioxide.
HAZARDOUS POLYMERIZATION..... Will not occur

SECTION 8

HEALTH HAZARD DATA

SKIN CONTACT... Contact may cause irritation. Prolonged contact may result in severe inflammation and sensitization.
EYE CONTACT... Liquid causes severe and persistent conjunctivitis which can result in permanent damage. Vapors may cause irritation and stinging, but not injury.
INHALATION.... Vapors are irritating. May cause stinging sensation in nose and throat, difficulty in breathing, headache.
INGESTION..... Moderately toxic, may cause moderate to severe irritation of gastrointestinal system. May lead to abdominal and chest discomfort, nausea, vomiting, collapse and coma.

SECTION 9

EMERGENCY 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 10

ENVIRONMENTAL DATA

SPILL OR LEAK PROCEDURES... Avoid skin contact. Contain spill, deactivate with caustic soda at pH 12.0 for 3-6 hours depending on concentration of gluteraldehyde. Toxic to fish- do not discharge into waterways.
WASTE DISPOSAL METHOD..... Pesticide. Improper disposal of pesticide wastes is a violation of Federal Law. Dispose of in accordance with all federal, state and local regulations.
HAZARDOUS WASTE 40CFR261... This product is an EPA registered pesticide. Contact the regional office of the EPA for guidance in proper disposal.
CONTAINER DISPOSAL..... Empty containers may contain residuals. Do not reuse empty container. Triple rinse, then offer for recycling or reconditioning, or disposal in accordance with all regulations.

SECTION 11

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION.....NIOSH/MSHA approved can or cartridge respirator for gas and vapor as needed to maintain P.E.L.
VENTILATION.....Local and/or mechanical exhaust to maintain exposure below P.E.L.
PROTECTIVE CLOTHING.....Neoprene gloves, full chemical suit, boots - as necessary to prevent skin contact.
EYE PROTECTION.....Chemical goggles and/or full face shield.
OTHER PRECAUTIONS.....Safety shower and eyewash fountains should be easily accessible.

SECTION 12

SUPPLIER 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.