

MATERIAL SAFETY DATA SHEET

INHIBITED CITRIC ACID 3109

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SECTION 1 MANUFACTURER INFORMATION

DB WATER TECHNOLOGIES
P.O. BOX 13637
TEMPE, ARIZONA 85284
PH. 480-838-9004 FAX 480-718-8621

SECTION 2 PRODUCT IDENTIFICATION

PRODUCT NUMBER..... DB 3109
TRADE NAME OR CHEMICAL NAME..... INHIBITED CITRIC ACID 3109
SYNONYMS..... K10010-1
CHEMICAL FAMILY..... Acid Cleaner
NFPA - HEALTH HAZARD..... 1
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

<u>CHEMICAL NAME(S)</u>	<u>CAS NUMBER</u>	<u>% WT</u>	<u>TLV-TWA</u>	<u>PEL</u>	<u>SEC.313</u>	<u>CARCINOGEN?</u>
Citric Acid	77-92-9	<45	Not Established	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..... Cleaning Compound, Liquid
BULK SHIPPING NAME..... Same

SECTION 5 PHYSICAL DATA

BOILING/FREEZING POINT @760 mmHg.... 215°F (102°C) / ND
pH..... 3.5
VAPOR PRESSURE mm Hg @20° C..... Similar to water
VAPOR DENSITY (Air = 1) ~1
PERCENT VOLATILE BY WEIGHT (%) 60
SPECIFIC GRAVITY @20°C..... 1.223
SOLUBILITY IN WATER..... Complete
EVAPORATION RATE..... (Water=1) <1
APPEARANCE AND ODOR..... Clear, colorless liquid with nearly no odor.

SECTION 6 FIRE AND EXPLOSION HAZARD DATA

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

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SECTION 6

FIRE AND EXPLOSION HAZARD DATA

CONT'D

EXTINGUISHING MEDIA..... Not combustible
SPECIAL FIRE FIGHTING PROCEDURES.... NA
UNUSUAL FIRE & EXPLOSION HAZARDS.... No unusual hazards.

SECTION 7

REACTIVITY DATA

PRODUCT STABILITY..... Stable
Conditions to Avoid..... NA
CHEMICAL INCOMPATIBILITY..... Strong alkalis, Strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS.... NA
HAZARDOUS POLYMERIZATION..... Will Not Occur

SECTION 8

HEALTH HAZARD DATA

SKIN CONTACT.... Irritation upon contact.
EYE CONTACT..... Immediate irritation.
INHALATION..... Not a likely route of exposure.
INGESTION..... Possible irritation of esophagal linings.

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. Neutralize with appropriate material and flush with water to sanitary sewer.
WASTE DISPOSAL METHOD..... Dispose of in accordance with all federal, state and local regulations.
HAZARIOUS WASTE 40CFR261... NA
CONTAINER DISPOSAL..... Empty containers may contain residuals. Thoroughly clean, then offer for recycling, reuse, or disposal in accordance with governmental regulations.

SECTION 11

SPECIAL 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 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.