

**MATERIAL SAFETY DATA SHEET**

**WWT 1950 WATER TREATMENT**

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**SECTION I - IDENTIFICATION**  
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COMPANY NAME..... JACAM CHEMICALS, L.L.C.  
EMERGENCY PHONE NUMBER... CHEMTREC 800/424-9300  
EFFECTIVE DATE..... 03-24-1995, Original issue  
REVISED DATE..... 05-08-1995, Supercedes issue of 03-24-1995  
PRODUCT IDENTIFIER..... WWT 1950  
TRADE NAME..... WWT 1950 WATER TREATMENT  
CHEMICAL FAMILY..... BISULFITE, AMINE TRIPHOSPHATE  
CHEMICAL FORMULA..... PROPRIETARY INFORMATION

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**SECTION II - HAZARDOUS INGREDIENTS**  
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HAZARDOUS INGREDIENTS	HAZARDOUS INGREDIENT PERCENT	TLV (Units)	HAZARDOUS INGREDIENT CAS/NA/UN NUMBERS
METHANOL*	**	200ppm	67-56-1
ETHYLENE GLYCOL*	**	50ppm	107-21-1

\*SARA TITLE III  
Sec. 313 Chemical

\*\*Proprietary Data  
  
All Ingredients TSCA  
Listed

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**SECTION III - PHYSICAL DATA**  
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BOILING POINT..... Not Determined (N/D)  
FREEZING POINT..... N/D  
VOLATILITY/VOL(%)..... N/D  
MELTING POINT..... Not Applicable (N/A)  
VAPOR PRESSURE..... N/D  
VAPOR DENSITY (air=1).... N/D  
SOLUBILITY IN H2O..... Complete  
ODOR AND APPEARANCE..... Mild odor/Dark brown liquid  
SPECIFIC GRAVITY..... Calc. ~1.25  
EVAPORATION RATE..... N/D  
pH..... 4 - 4.5

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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**  
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FLASHPOINT AND METHOD OF Calc. ~85 F  
DETERMINATION.....  
LOWER EXPLOSION LIMIT(% N/D  
BY VOL).....  
UPPER EXPLOSION LIMIT(% N/D  
BY VOL).....  
  
MEANS OF EXTINGUISHMENT..... Dry chemical, carbon dioxide, water spray, regular  
foam  
  
FOR FIRE..... Use NIOSH/MSHA-approved self-contained breathing  
apparatus and full protective clothing. Heat may  
build pressure, rupturing closed containers. Use  
water spray to cool fire-exposed containers and  
disperse vapors. Vapors are heavier than air and may  
travel along ground to distant ignition source where  
they may ignite, flash back, or explode. Vapor  
explosion hazard indoors, outdoors, or in sewers.  
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**SECTION V - HEALTH HAZARD DATA**  
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ODOR THRESHOLD..... N/D  
  
ACUTE OVER EXPOSURE PRIMARY ROUTES OF EXPOSURE: Inhalation, absorption,  
EFFECTS..... ingestion.  
  
EYES: Irritation, redness, tearing.  
SKIN: Irritation, redness. Product may be absorbed.  
Prolonged or repeated exposure may result in Central  
Nervous System damage; blindness; and damage to the  
pancreas, liver, or kidneys.  
INHALATION: Respiratory irritation, headaches,  
nausea, vomiting, intoxication, and unconsciousness.  
Prolonged or repeated exposure may result in CNS  
damage; blindness; and damage to the pancreas,  
liver, or kidneys.  
INGESTION: Irritation of the digestive tract,  
nausea, vomiting, intoxication, headaches, and  
unconsciousness.

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SPECIFIC FIRST AID  
PROCEDURES.....

EYES: Immediately flush with plenty of water for at least 15 minutes, retracting lids frequently. Obtain immediate medical attention.  
SKIN: Immediately remove contaminated clothing and shoes. Wash affected area with soap and water then rinse thoroughly. If irritation persists, obtain medical attention.  
INHALATION: Remove to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain immediate medical attention.  
INGESTION: If conscious and alert, give 2 glasses of water to drink, then induce vomiting by placing finger at back of throat. Obtain immediate medical attention. Keep head below hips to prevent aspiration. Never attempt to give anything by mouth to an unconscious or convulsing person. If unconscious, place victim on left side with head below hip level. Do not leave victim unattended.

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**SECTION VI - REACTIVITY DATA**  
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CHEMICAL STABILITY..... Stable.  
CONDITIONS OF REACTIVITY. Heat, sparks, flame, static electricity, all sources of ignition.  
INCOMPATIBLE MATERIALS... Strong acids, oxidizers, alkaline materials.  
HAZARDOUS DECOMPOSITION PRODUCTS..... Carbon monoxide, carbon dioxide, oxides of nitrogen, and sulfur.  
HAZARDOUS POLYMERIZATION. Will not occur.  
POLYMERIZATION AVOID..... N/A

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**SECTION VII - SPILL OR LEAK PROCEDURE**  
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LEAK AND SPILL PROCEDURES Wearing appropriate personal protection equipment, shut off leak if safe to do so. Eliminate all sources of ignition. Contain by diking with inert material to prevent entering drains, sewers, surface or ground waters, and soil. Using explosion-proof or hand pump, pump large spills into DOT-approved waste containers. Absorb residues and small spills with inert material and sweep into DOT-approved waste containers.

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WASTE DISPOSAL..... Dispose of in accordance with all applicable local, state and federal regulations.

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**SECTION VIII - SPECIAL PROTECTION**  
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RESPIRATORY PROTECTION... If exposure exceeds PEL/TLV, use NIOSH/MSHA-approved self-contained breathing apparatus.  
VENTILATION..... Special ventilation may be required if operating conditions result in release of vapors exceeding PEL/TLV.  
PROTECTIVE GLOVES..... Impervious, PVC-coated, rubber, or neoprene.  
EYE PROTECTION..... Chemical splash goggles with full face shield in high exposure situations. DO NOT wear contact lenses.  
OTHER PROTECTIVE EQUIPMENT..... Impervious apron or coveralls in high exposure situations, long sleeves, and boots. Safety shower, eye wash fountain, and lavatory should be readily available.  
  
HANDLING PROCEDURES AND EQUIPMENT..... Store in tightly closed, properly vented containers in a cool, dry, well ventilated area away from ignition sources and incompatible materials. "Empty" containers retain hazardous residues and may explode if heated sufficiently. Do not cut, weld, braze, solder, drill, grind, pressurize, or expose such containers to heat, sparks, flame, static electricity, or any source of ignition. Store drums in bung-up position. Protect from physical damage. Carefully vent internal pressure before beginning transfer. Electric equipment should conform to national electric code. Use only non-sparking tools. Avoid inhalation of vapors and personal contact with product.

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**SECTION IX - SPECIAL PRECAUTIONS**  
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HAZARD CLASS..... 3, FLAMMABLE  
DOT SHIPPING NAME..... FLAMMABLE LIQUID, NOS (METHANOL), PG III.  
REPORTABLE QUANTITY (RQ). 18,500 lbs. or 2,035 gal.  
UN NUMBER..... UN#1993  
NA #..... N/A  
PACKAGING SIZE..... 5 Gallon/55 Gallon/Bulk

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FOOT NOTES

NFPA CLASSIFICATION: HEALTH: 2  
FLAMMABILITY: 3  
REACTIVITY: 0  
SPECIFIC HAZARD: N/A

REFERENCES

----- N O T I C E -----

All information provided in this Material Safety Data Sheet (MSDS) is based upon data obtained from the manufacturer and/or recognized technical sources and is believed to be reliable as of the date hereof. JACAM Chemicals, L.L.C. provides no warranties, either expressed or implied, and assumes no responsibility for the accuracy or completeness. Conditions of use are beyond JACAM's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular circumstances. Users assume all risks of the use, handling, and disposal of this product, or from the publication or use of, or reliance upon, information contained herein. This MSDS relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process. JACAM knows of no medical condition, other than those noted in this MSDS, which are generally recognized as being aggravated by exposure to this product.

\* \* \* END OF MSDS \* \* \*