

MATERIAL SAFETY DATA SHEET

STIM ANTI-SLUDGE 8900 ACID STIMULATION

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SECTION I - IDENTIFICATION
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COMPANY NAME..... JACAM CHEMICALS, L.L.C.
EMERGENCY PHONE NUMBER... CHEMTREC 1-800-424-9300
EFFECTIVE DATE..... 09/04/1998, Original issue
REVISED DATE..... 07/27/2004, Supercedes issue of 09/16/2003
PRODUCT IDENTIFIER..... STIM ANTI-SLUDGE 8900
TRADE NAME..... STIM ANTI-SLUDGE 8900 ACID STIMULATION
CHEMICAL FAMILY..... ORGANIC MIXTURE
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
TRADE SECRET	**	Not Established (N/E)	73296-89-6
ISOPROPANOL*	**	400ppm	67-63-0
ETHYLENE GLYCOL*	**	50ppm	107-21-1

*SARA Title III
Section 313 Chemical

**Proprietary Data

All ingredients TSCA-
listed or exempt

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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..... N/A
VAPOR PRESSURE..... N/D
VAPOR DENSITY (air=1).... N/D
SOLUBILITY IN H2O..... Complete
ODOR AND APPEARANCE..... Pungent odor/Straw-colored liquid
SPECIFIC GRAVITY..... 0.94 - 0.97
EVAPORATION RATE..... N/D
pH..... 1.5 - 2.5

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA
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FLASHPOINT AND METHOD OF DETERMINATION..... 115 deg. F (TCC)

LOWER EXPLOSION LIMIT(% BY VOL)..... N/D

UPPER EXPLOSION LIMIT(% BY VOL)..... N/D

MEANS OF EXTINCTION..... Dry chemical, carbon dioxide, alcohol-type 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 may ignite, flash back, or explode.

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SECTION V - HEALTH HAZARD DATA
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ODOR THRESHOLD..... N/D

ACUTE OVER EXPOSURE EFFECTS..... SKIN: Irritation, dryness, cracking. Repeated skin contact may cause dermatitis. Prolonged contact may cause chemical burns.

EYES: Contact with liquid may cause severe irritation, discomfort or pain, excess blinking and tear production, redness, swelling, and possibly chemical burns.

INHALATION: Respiratory irritation, coughing, burning, tightness of chest, shortness of breath, headache, drowsiness, dizziness.

INGESTION: Nausea, vomiting, diarrhea, dizziness, drowsiness, Central Nervous System effects. May result in kidney damage.

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SPECIFIC FIRST AID PROCEDURES..... SKIN: Immediately remove contaminated clothing and shoes. Flush with plenty of water for at least 15 minutes. Wash affected area with plenty of soap and water. If irritation persists, obtain medical attention. Launder clothing and clean shoes before reuse.

EYES: Immediately flush with plenty of water for at least 15 minutes, retracting lids frequently. Obtain immediate medical attention, preferably by an ophthalmologist.

INHALATION: Remove to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain immediate medical attention.

INGESTION: DO NOT INDUCE VOMITING. Obtain immediate medical attention. If conscious and alert, have victim rinse mouth with water, then drink large amounts of water to dilute stomach contents. If spontaneous vomiting occurs, keep head below hips to prevent aspiration, rinse mouth, and give water again. Never attempt to give anything by mouth to an unconscious or convulsing person.

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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, and incompatible materials.

INCOMPATIBLE MATERIALS... Oxidizers, acids, bases, materials reactive with hydroxyl compounds, anionic surfactants.

HAZARDOUS DECOMPOSITION PRODUCTS..... Carbon monoxide, carbon dioxide, oxides of sulfur, oxides of nitrogen, ammonia, amines, hydrogen chloride, oxides of phosphorus.

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 protective equipment, shut off leak if safe to do so. Eliminate all sources of ignition. Approach area upwind if possible. Contain by diking with inert material to prevent entering drains, sewers, surface and 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, sweep up, and place in DOT-approved waste containers.

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, or other sources 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..... COMBUSTIBLE
DOT SHIPPING NAME..... NOT REGULATED IN DRUM QUANTITIES
REPORTABLE QUANTITY (RQ). 23,802 lbs., 2,953 gal. (53.6 55-gal. drums), based on
Ethylene Glycol
UN NUMBER..... N/A
NA #..... NA#1993
PACKAGING SIZE..... 5 Gallon/55 Gallon

FOOT NOTES

NFPA CLASSIFICATION: HEALTH: 2
FLAMMABILITY: 2
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 * * *