

MATERIAL SAFETY DATA SHEET

OCI 2000H HI-TEMP CORROSION INHIBITOR

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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..... 03-17-1994, Original issue
REVISED DATE..... 06-29-2000, Supercedes issue of 08-03-1995
PRODUCT IDENTIFIER..... OCI 2000H
TRADE NAME..... OCI 2000H HI-TEMP CORROSION INHIBITOR
CHEMICAL FAMILY..... NEUTRALIZED AMINES
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
PETROLEUM SOLVENT	**	Not Established	Mixture
ISOPROPANOL*	**	400ppm	67-63-0
TRADE SECRET*+	**	20ppm	**

*SARA TITLE III
Sec. 313 Chemical

**Proprietary Data

+See Section IX

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..... N/D
VAPOR PRESSURE..... N/D
VAPOR DENSITY (air=1).... N/D
SOLUBILITY IN H2O..... Oil soluble/Water dispersible
ODOR AND APPEARANCE..... Petroleum smell/Dark amber liquid
SPECIFIC GRAVITY..... Calc. 0.9323
EVAPORATION RATE..... N/D
pH..... 7 - 8

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA
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FLASHPOINT AND METHOD OF Calc. 86 F
DETERMINATION.....

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

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

MEANS OF EXTINCTION..... Dry chemical, foam, carbon dioxide

FOR FIRE..... Use NIOSH/MSHA-approved self-contained breathing
apparatus and full protective clothing. Use a
smothering technique to extinguish this type of fire.
Heat may build pressure, rupturing closed containers.
Use water spray to cool fire-exposed containers and
disperse vapors. Avoid spreading burning liquid with
water used for cooling purposes. Vapors can burn
with explosive violence. Vapors are heavier than air
and may travel along ground to distant ignition
source where they may ignite, flashback, or explode.

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

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ACUTE OVER EXPOSURE
EFFECTS.....

SKIN: Irritation, erythema, edema, blistering.

EYES: Irritation, redness, burning, stinging,
tearing, swelling.

INHALATION: ANESTHETIC. Irritation of respiratory tract; Central Nervous System depression characterized by headache, dizziness, drowsiness, lethargy, loss of coordination, impaired memory, and nausea. In extreme cases, collapse, coma, and death may occur.

INGESTION: HARMFUL OR FATAL IF SWALLOWED. Gastrointestinal irritation, severe nausea, CNS depression, abdominal pain, vomiting, low blood pressure, rapid heartbeat, and liver damage. Collapse, coma, and death may follow.

SPECIFIC FIRST AID
PROCEDURES.....

SKIN: Immediately remove contaminated clothing and shoes. Wash affected area with plenty of soap and water. Obtain immediate 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.

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

INGESTION: If conscious and alert, give water or milk to drink; DO NOT induce vomiting. If spontaneous vomiting occurs, keep head below hips to prevent aspiration, and give liquids again. Obtain immediate medical attention. 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.

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INCOMPATIBLE MATERIALS... Strong oxidizing agents, such as permanganate or liquid chlorine; acids; nitrites. Do not store or handle in aluminum equipment at temperatures above 120 F.

HAZARDOUS DECOMPOSITION PRODUCTS..... Carbon monoxide, aldehydes, ammonia, oxides of nitrogen, ketones, and other unidentified organic compounds.

HAZARDOUS POLYMERIZATION. Will not occur
POLYMERIZATION AVOID..... Not Applicable (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.

WASTE DISPOSAL..... Dispose of in accordance with 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.

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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, flame, static electricity, sparks, 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 (ISOPROPANOL, PETROLEUM SOLVENT), PG III.
REPORTABLE QUANTITY (RQ). 23,810 lbs. or 3,211 gal. (59, 55 gal. drums)
UN NUMBER..... UN#1993
NA #..... N/A
PACKAGING SIZE..... 5 Gallon/55 Gallon/Bulk

FOOT NOTES

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

SECTION II HAZARDOUS INGREDIENTS NOTE

One of the components in this mixture is a SARA Title III Section 313 Chemical. The identity of this component will be made available to employees, health professionals, and designated representatives of our customers in accordance with regulatory requirements under appropriate circumstances.

REFERENCES

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----- 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 * * *