

**MATERIAL SAFETY DATA SHEET**

**CS PELLETS**

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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..... 03-1989, Original issue  
REVISED DATE..... 05-23-1995, Supercedes issue of 09-23-1994  
PRODUCT IDENTIFIER..... CS PELLETS CARBONATE SCALE  
TRADE NAME..... CS PELLETS  
CHEMICAL FAMILY..... ORGANOPHOSPHONATE  
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
ORGANOPHOSPHONATE POTASSIUM SALT	**	Not Established (N/E)	2235-43-0
OXYALKYLATED RESINS	**	N/E	9016-45-9

\*\*Proprietary Data

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**SECTION III - PHYSICAL DATA**  
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BOILING POINT..... Not Applicable (N/A)  
FREEZING POINT..... N/A  
VOLATILITY/VOL(%)..... N/A  
MELTING POINT..... 130 - 140 F  
VAPOR PRESSURE..... N/A  
VAPOR DENSITY (air=1).... N/A  
SOLUBILITY IN H2O..... Complete  
ODOR AND APPEARANCE..... Alcohol odor/Solid, waxy blue pellets  
SPECIFIC GRAVITY..... Calc. 1.61  
EVAPORATION RATE..... N/A  
pH..... Not Determined (N/D)

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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**  
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FLASHPOINT AND METHOD OF DETERMINATION..... > 300 F

LOWER EXPLOSION LIMIT(% BY VOL)..... N/A  
UPPER EXPLOSION LIMIT(% BY VOL)..... N/A

MEANS OF EXTINCTION..... Water fog, carbon dioxide, dry chemical, foam

FOR FIRE..... Material will not burn unless preheated. Use full protective equipment including NIOSH-approved positive-pressure self-contained breathing apparatus. Treat as an oil fire. Use a smothering technique to extinguish.  
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**SECTION V - HEALTH HAZARD DATA**  
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ODOR THRESHOLD..... N/D

ACUTE OVER EXPOSURE EFFECTS..... SKIN: Prolonged contact, as with clothing wet with melted product, could cause irritation.

EYES: Direct contact may cause severe damage.

INHALATION: Vapors, mist, or spray of melted product could result in chest pain and coughing.

INGESTION: May cause nausea, vomiting, and diarrhea.

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SPECIFIC FIRST AID PROCEDURES..... SKIN: Immediately remove contaminated clothing and shoes. Wash affected area with plenty of soap and water. If symptoms persist, 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. If symptoms persist, obtain medical attention.  
INGESTION: If conscious and alert, give 2 glasses of water to drink, then induce vomiting by placing finger at back of throat. Keep head below hips to prevent aspiration. 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, open flames, direct sun, moisture, and excess humidity.  
INCOMPATIBLE MATERIALS... Strong acids, strong oxidizing and reducing agents  
HAZARDOUS DECOMPOSITION PRODUCTS..... Carbon monoxide and other unknown organic products  
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 Avoid skin contact. Wearing personal protective equipment, recover by sweeping into container for use. If contaminates prevent reuse, place in DOT-approved waste container for disposal.  
WASTE DISPOSAL..... Dispose of in accordance with applicable local, state and federal regulations. Not an RCRA hazardous waste.

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**SECTION VIII - SPECIAL PROTECTION**  
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RESPIRATORY PROTECTION... In case of insufficient ventilation, wear suitable respiratory equipment.  
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..... Goggles or safety glasses. DO NOT wear contact lenses.  
OTHER PROTECTIVE EQUIPMENT..... Body-covering clothing and shoes or boots are recommended. Safety shower, eye wash fountain, and lavatory should be readily available.

HANDLING PROCEDURES AND EQUIPMENT..... Corrosive material: Use gloves when handling and avoid personal contact with product. Store in tightly closed containers in a cool, dry area away from heat, sparks, flame, direct sunlight, and incompatible materials. Keep containers tightly closed when not in use.

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**SECTION IX - SPECIAL PRECAUTIONS**  
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HAZARD CLASS..... Not D.O.T. Regulated  
DOT SHIPPING NAME..... N/A NON-HAZARDOUS  
REPORTABLE QUANTITY (RQ). N/A  
UN NUMBER..... N/A  
NA #..... N/A  
PACKAGING SIZE..... 25 lb. pails/30 lb. coolers

FOOT NOTES

NFPA CLASSIFICATION: HEALTH: 2  
FLAMMABILITY: 1  
REACTIVITY: 0  
SPECIFIC HAZARD: N/A

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 \* \* \*