



CHEMICAL ASSOCIATES
1270 South Cleveland-Massillon Road
Building B
Copley, OH 44321-1683

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 800-347-2891
MSDS REFERENCE: CA4811, CA4811K

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SECTION I - IDENTIFICATION

PRODUCT: CA4811 ZINC STEARATE BEAD
SYNONYMS:
CHEMICAL: ZINC STEARATE
CAS NO: 557-05-1
SARA HAZARD: TITLE III SECTION 311/312 - NONE NOTED
TITLE III SECTION 313 - ZINC COMPOUND AS ZINC OXIDE, MAX 11.5 PERCENT BY WEIGHT

SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	TYPICAL %	PEL/TLV	HAZARD
ZINC STEARATE (557 - 05 - 1)	100	10mg/m ³ ACGIH TWA	IRRITANT

SECTION III - HEALTH INFORMATION

INHALATION: DUST CAN CAUSE DISCOMFORT OF THE NOSE, THROAT AND UPPER RESPIRATORY TRACT, COUGHING AND CHOKING.

INGESTION: CAN CAUSE GASTRO INTESTINAL DISCOMFORT IF SWALLOWED.

EYE CONTACT: CAN CAUSE DISCOMFORT WITH CONTACT.

SKIN CONTACT: CAN CAUSE DISCOMFORT WITH PROLONGED CONTACT.

SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

PEL: NO OSHA PEL
TLV: 10 mg/m³ ACGIH TWA

SECTION V - EMERGENCY FIRST AID PROCEDURE

INGESTION: CONSULT A PHYSICIAN OR POISON CONTROL CENTER PROMPTLY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS INDIVIDUAL.

INHALATION: REMOVE TO FRESH AIR AND REST IN HALF UPRIGHT POSITION. TREAT ANY IRRITATION SYMPTOMATICALLY. GET MEDICAL ATTENTION IF COUGH OR OTHER SYMPTOMS DEVELOP. IF VICTIM HAS STOPPED BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH TO MOUTH.

EYE CONTACT: REMOVE CONTACT LENSES. HOLD EYELIDS APART. IMMEDIATELY FLUSH EYES WITH PLENTY OF LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. WASH AFFECTED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

SECTION VI - PHYSICAL DATA

BOILING POINT: N/A
MELTING POINT: 120 - 132 DEG C
VAPOR PRESSURE: NIL
SPECIFIC GRAVITY: (H₂O = 1) > 1.0
SOLUBILITY IN WATER: NEGLIGIBLE
APPEARANCE AND COLOR: SMALL, WHITE TO TAN BEADS, MILD FATTY ODOR

SECTION VII - FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED: >500 DEG F (>260 DEG C), PMCC
FLAMMABLE LIMITS IN AIR, % BY VOL. LOWER: NOT ESTABLISHED
FLAMMABLE LIMITS IN AIR, % BY VOL. UPPER: NOT ESTABLISHED
NFPA RATING: HEALTH: (1) FIRE: (1) REACTIVITY: (0)
HMIS RATING: HEALTH: (1) FIRE: (1) REACTIVITY: (0)

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

INDIVIDUALS SHOULD PERFORM ONLY THOSE FIRE PROCEDURES FOR WHICH THEY HAVE BEEN TRAINED. WATER OR FOAM MAY CAUSE FROTHING WHEN APPLIED TO FLAMMABLE LIQUIDS HAVING FLASH POINTS ABOVE 212 DEG F (100 DEG C). THE REMARK IS INCLUDED ONLY AS A PRECAUTION AND DOES NOT MEAN THAT WATER OR FOAM SHOULD NOT OR COULD NOT BE USED IN FIGHTING FIRES IN SUCH LIQUIDS. THE FROTHING MAY BE QUITE VIOLENT AND COULD ENDANGER THE LIFE OF THE FIREFIGHTER PARTICULARLY WHEN SOLID STREAMS ARE DIRECTED INTO THE HOT BURNING LIQUID. ON THE OTHER HAND, WATER SPRAY CAREFULLY APPLIED HAS FREQUENTLY BEEN USED WITH SUCCESS IN EXTINGUISHING SUCH FIRES BY CAUSING THE FROTHING TO OCCUR ONLY ON THE SURFACE AND THIS FOAMING ACTION BLANKETS AND EXTINGUISHES THE FIRE. (NFPA 325M-1984) WATER, CO₂, FOG, OR DRY CHEMICAL CAN BE USED AS EXTINGUISHING MEDIA.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS IN THE POSITIVE-PRESSURE MODE WITH A FULL FACEPIECE WHEN THERE IS A POSSIBILITY OF EXPOSURE TO SMOKE, FUMES OR HAZARDOUS DECOMPOSITION PRODUCTS. DUST EXPLOSIONS CAN OCCUR UNDER CONDITIONS OF HIGH DUST CONCENTRATIONS IN THE PRESENCE OF AN IGNITION SOURCE.

SECTION VIII - REACTIVITY

STABILITY:	STABLE
HAZARDOUS POLYMERIZATION:	NONE KNOWN
CONDITIONS AND MATERIALS TO AVOID:	STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS:	CO ₂ , ZnO

SECTION IX - EMPLOYEE PROTECTION

CONTROL MEASURES:

AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. WASH THOROUGHLY AFTER HANDLING, AND BEFORE EATING, DRINKING OR SMOKING. REMOVE CONTAMINATED CLOTHING PROMPTLY, AND CLEAN THOROUGHLY BEFORE REUSE. EYEWASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE EASILY ACCESSIBLE. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

RESPIRATORY PROTECTION:

WHETHER THERE IS A NEED FOR RESPIRATORY PROTECTION UNDER YOUR CONDITIONS OF HANDLING OF THIS MATERIAL SHOULD BE EVALUATED BY A QUALIFIED HEALTH SPECIALIST. VENTILATION SHOULD BE SUFFICIENT TO CONTROL DUST. IN THE CASE OF REPEATED OR PROLONGED EXPOSURE, AN NIOSH APPROVED HALF MASK WITH CARTRIDGE SHOULD BE USED.

PROTECTIVE CLOTHING:

WEAR GLOVES AND PROTECTIVE CLOTHING WHICH ARE IMPERVIOUS TO THE PRODUCT FOR THE DURATION OF ANTICIPATED EXPOSURE IF THERE IS POTENTIAL FOR PROLONGED OR REPEATED SKIN CONTACT.

EYE PROTECTION:

WEAR SAFETY GLASSES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1 WHERE NO CONTACT WITH THE EYE IS ANTICIPATED. CHEMICAL SAFETY GOGGLES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1 SHOULD BE WORN WHENEVER THERE IS THE POSSIBILITY OF SPLASHING OR OTHER CONTACT WITH THE EYES.

SECTION X - ENVIRONMENTAL PROTECTION

ENVIRONMENTAL PRECAUTIONS:

AVOID UNCONTROLLED RELEASES OF THIS MATERIAL. WHERE SPILLS ARE POSSIBLE, A COMPREHENSIVE SPILL RESPONSE PLAN SHOULD BE DEVELOPED AND IMPLEMENTED.. DISCHARGE FROM A VENTILATION SYSTEM SHOULD COMPLY WITH APPLICABLE AIR POLLUTION CONTROL REGULATIONS.

SPILL OR LEAK PRECAUTIONS:

WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING AS DESCRIBED IN SECTION IX. CONTAIN SPILLED MATERIAL. TRANSFER TO SECURE CONTAINERS. WHERE NECESSARY, COLLECT USING ABSORBENT MEDIA. IN THE EVENT OF AN UNCONTROLLED RELEASE OF THIS MATERIAL, THE USER SHOULD DETERMINE IF THE RELEASE IS REPORTABLE UNDER APPLICABLE LAWS AND REGULATIONS. REMOVE ALL POSSIBLE IGNITION SOURCES AND

AVOID RAISING DUST CLOUDS. DUST EXPLOSIONS CAN OCCUR UNDER CONDITIONS OF HIGH DUST CONCENTRATIONS IN THE PRESENCE OF AN IGNITION SOURCE.

WASTE DISPOSAL:

ALL RECOVERED MATERIAL SHOULD BE PACKAGED, LABELED, TRANSPORTED, AND DISPOSED OR RECLAIMED IN CONFORMANCE WITH APPLICABLE LAWS AND REGULATIONS AND IN CONFORMANCE WITH GOOD ENGINEERING PRACTICES. AVOID LANDFILLING OF LIQUIDS. RECLAIM WHERE POSSIBLE.

SECTION XI - REGULATORY CONTROLS

DEPARTMENT OF TRANSPORTATION:

DOT CLASSIFICATION: NOT REGULATED
DOT PROPER SHIPPING NAME: N/A
OTHER DOT INFORMATION: N/A

OTHER REGULATORY REQUIREMENTS:

U. S. TSCA: INCLUDED ON TSCA INVENTORY.
LISTED ON CANADIAN DSL, EUROPE EINECS

CERCLA HAZARDOUS MATERIALS:

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS SUBJECT TO REPORTING AS A CERCLA HAZARDOUS SUBSTANCE UNDER 40CFR302.4.RCRA. THIS PRODUCT IS NOT A HAZARDOUS WASTE AS LISTED IN 40CF9261.33. IT DOES NOT EXHIBIT ANY OF THE HAZARDOUS CHARACTERISTICS LISTED IN 40CFR261, SUBPART C.

SECTION XII - PRECAUTIONS: HANDLING, STORAGE AND USAGE

STORE IN COOL, DRY AREA, AWAY FROM HEAT, SPARK OR FLAME. AVOID SKIN AND EYE CONTACT. WASH HANDS AFTER HANDLING. WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Chemical Associates bears responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

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DATE: 10/29/09
SUPERSEDES: 07/10/06