

SAFETY DATA SHEET

EFFECTIVE: February 19, 2024

This Safety Data Sheet conforms to the format requirements of the Global Harmonizing System and complies with Hazard Communication Standard (HCS) of 29 CFR 1910.1200.

SECTION 1: IDENTIFICATION

Level 7 Chemical
255 Sturgis Rd, Conway, AR 72034
(855) 927-1777

PRODUCT IDENTITY:	CALCIUM CHLORIDE, 32-33% AQUEOUS SOLUTION
COMMON NAME OR SYNONYMS:	CALCIUM CHLORIDE
PRODUCT USE:	COAGULATION AID & FIRING AGENT
24 Hour Emergency Phone:	CHEMTREC 800- 424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

WARNING! Irritant (skin and eye)

HAZARD STATEMENTS:

(H300s) HEALTH: Skin Corrosion/Irritation: Category 2

H315 CAUSES SKIN IRRITATION

(H300s) HEALTH: Serious Eye Damage/Eye Irritation: Category 2A

H319 CAUSES SERIOUS EYE IRRITATION

(H300s) HEALTH: Acute Toxicity/Oral: Category 5

H303 MAY BE HARMFUL IF SWALLOWED



PRECAUTIONARY STATEMENTS:

P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal

P264	Wash exposed skin thoroughly after handling
P280	Wear protective gloves and eye protection/face protection
P302+P352	IF ON SKIN: Wash with plenty of water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment-Rinse contacted area well with water
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before use.

Reference: GHS Purple Book-Annex 3

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS#	Percent (%)
WATER	7732-18-5	62-68
CALCIUM CHLORIDE	10043-52-4	32-33
POTASSIUM CHLORIDE	7447-40-7	< 3
SODIUM CHLORIDE	7647-14-5	< 2

SECTION 4: FIRST-AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT- FLUSH EYE WITH WATER 15 MINUTES OR LONGER

SKIN CONTACT- RINSE CONTACTED AREA WELL WITH WATER

INHALATION – Call a POISON CENTER or doctor if you feel unwell

IF SWALLOWED- RINSE (DO NOT SWALLOW) MOUTH WITH PLENTY OF WATER, CONTACT POISON CENTER FOR ADVICE/ASSISTANCE IF UNWELL

SECTION 5: FIRE-FIGHTING MEASURES

FIRE & EXPLOSION PREVENTION MEASURES: NON-FLAMMABLE LIQUID

SUITABLE EXTINGUISHING MEDIA: EXTINGUISHING AGENTS APPROPRIATE FOR SURROUNDING FIRE

NON-SUITABLE EXTINGUISHING MEDIA: NONE KNOWN

SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS: FIREFIGHTERS SHOULD WEAR PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS FOR FIGHTING SURROUNDING FIRE

HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE GAS, CALCIUM OXIDE

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: EQUIPMENT SHOULD BE ADEQUATE TO PREVENT SKIN & EYE CONTACT.

EMERGENCY PROCEDURES: EVACUATION NOT REQUIRED; WATERPROOF CLOTHING RECOMMENDED IF LARGE SPILL—BOOTS

METHODS AND MATERIALS FOR CONTAINMENT: USE STANDARD CONTAINMENT SOCKS, PADS & PILLOWS FOR CONTAINMENT; NO KNOWN RESTRICTION ON MATERIAL FOR SHORT-TERM DRAIN COVERS

CLEANUP PROCEDURES: FLUSH AREA WITH PLENTY OF WATER. CONTAINERS SHOULD BE TRANSPORTED AND DISPOSED OF ACCORDING TO LOCAL AND REGIONAL AUTHORITIES.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: USE NORMAL SAFETY PROCEDURES AVOIDING DIRECT CONTACT WITH EYES AND SKIN. USE GOOD PERSONAL HYGIENE AND GOOD HOUSE KEEPING PROCEDURES. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

KEEP CONTAINERS SEALED WHEN NOT IN USE TO AVOID SPILLS.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

MATERIAL	CAS #	EINECS #	TWA (OSHA)	TLV (ACGIH)
Calcium Chloride	10043-52-4	-	None Known	None Known

APPROPRIATE ENGINEERING CONTROLS: USE IN ENCLOSED SYSTEM WHEN POSSIBLE, USE CORROSION RESISTANT STORAGE TANKS TRANSFER LINES.

RESPIRATORY EXPOSURE CONTROLS—USE NIOSH/OSHA APPROVED RESPIRATOR

VENTILATION LOCAL OR SPECIAL—LOCAL IS RECOMMENDED

INDIVIDUAL PROTECTION MEASURES SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION—OSHA STANDARD SAFETY GLASSES WITH SIDE SHIELDS & CHEMICAL GOGGLES IF CONTACT LIKELY

SKIN PROTECTION—PROTECTIVE GLOVES RECOMMENDED AND APRONS OR APPROPRIATE WORK CLOTHING & BOOTS IMPERVIOUS TO MATERIAL. PVC OR NITRILE RECOMMENDED.

HYGIENE MEASURES—PROVIDE READILY ACCESSIBLE EYE WASH AND SAFETY SHOWERS; WASH HANDS PRIOR TO EATING; DESTROY CONTAMINATED LEATHER WEAR AND LAUNDRY OR DESTROY CONTAMINATED CLOTHING.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE—CLEAR LIQUID

LOWER FLAMMABLE LIMIT—NOT APPLICABLE

UPPER FLAMMABLE LIMIT—NOT APPLICABLE

ODOR—MILD

ODOR THRESHOLD—NOT AVAILABLE

VAPOR PRESSURE (MMHG)—NOT AVAILABLE

VAPOR DENSITY (AIR=1)—NOT AVAILABLE

pH/RANGE—5.5-7.0

RELATIVE DENSITY—1.314 - 1.325 @ 25°C

MELTING POINT—NOT APPLICABLE

FREEZE POINT—NOT AVAILABLE

SOLUBILITY—INFINITE

INITIAL BOILING POINT—230°F

FLASH POINT—NOT APPLICABLE

EVAPORATION RATE—NOT AVAILABLE

FLAMMABILITY—NOT APPLICABLE

PARTITION COEFFICIENT (N-OCTANOL/WATER)—NOT AVAILABLE

AUTO-IGNITION TEMPERATURE—NOT APPLICABLE

DECOMPOSITION TEMPERATURE—NOT AVAILABLE

VISCOSITY—NOT AVAILABLE

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY AND CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS; NO STABILIZERS REQUIRED

CONDITIONS TO AVOID: EXCESS HEAT

INCOMPATIBLE MATERIALS: ZINC, BROMIDE TRIFLUORIDE, 2-FURAN PERCARBOXYLIC ACID

HAZARDOUS DECOMPOSITION PRODUCTS: HYDROGEN GAS POSSIBLE IF TOTAL EVAPORATION OF WATER COMPONENT OCCURS

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE HAZARDS:

EYE & SKIN—BRIEF CONTACT, ESSENTIALLY NONIRRITATING TO SKIN, PROLONGED EXPOSURE MAY CAUSE IRRITATION AND BURN TO SKIN. MAY CAUSE SERIOUS IRRITATION TO EYES; MAY CAUSE SLIGHT CORNEAL INJURY.

INHALATION—MIST MAY CAUSE IRRITATION TO NOSE & THROAT.

SWALLOWING—LARGE AMOUNTS MAY CAUSE POSSIBLE ABDOMINAL IRRITATION OR ULCERATION.

SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED:

PRE-EXISTING DISORDERS OF ANY TARGET ORGANS IDENTIFIED IN THIS DOCUMENT CAN BE AGGRAVATED BY OVER-EXPOSURE OF THIS PRODUCT BY ROUTES IDENTIFIED IN THIS DOCUMENT-PERSONS WITH SUCH DISORDERS SHOULD AVOID USE OF THIS PRODUCT.

CHRONIC HAZARDS:

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS

THIS PRODUCT HAS NO CARCINOGENS LISTED BY IARC, NTP, NIOSH, OSHA OR ACGIH GREATER OR EQUAL TO 0.1%

TARGET ORGANS—MAY CAUSE DAMAGE BASED ON ANIMAL STUDIES

IRRITANCY—IRRITATING TO CONTAMINATED TISSUE

SENSITIZATION—NO COMPONENT KNOWN AS SENSITIZER

MUTAGENICITY—NO KNOWN REPORTS OF MUTAGENIC EFFECTS IN HUMANS

EMBRYOTOXICITY—NO KNOWN REPORTS OF EMBRYOTOXIC EFFECTS IN HUMANS

TERATOGENICITY—NO KNOWN REPORTS OF TERATOGENIC EFFECTS IN HUMANS

REPRODUCTIVE TOXICITY—NO KNOWN REPORTS OF REPRODUCTIVE EFFECTS IN HUMANS

MINOR COMPONENTS: POTASSIUM CHLORIDE, LARGE DOSES HAVE BEEN REPORTED TO EFFECT HEART AND KIDNEY; SODIUM CHLORIDE, LARGE DOSES ASSOCIATED WITH ELEVATED BLOOD PRESSURE.

MAMMALIAN TOXICITY INFORMATION:

LD50 (ORAL, RAT)—2,282 MG/KG (estimate)

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY: PRACTICALLY NONTOXIC TO AQUATIC ORGANISMS

FRESHWATER FISH TOXICITY:

- CALCIUM CHLORIDE-LC50, bluegill: > 8,350 mg/l
- POTASSIUM CHLORIDE-LC50, rainbow trout, 96 hrs: 4,236 mg/l
- SODIUM CHLORIDE-LC50, fathead minnow: 10,610 mg/l

MOBILITY IN SOIL: MOBILITY OF THIS MATERIAL IS HIGH DUE TO ITS HIGH WATER SOLUBILITY HOWEVER IT IS EXPECTED TO DISSOCIATE AND FORM STABLE INORGANIC SALTS

DEGRADABILITY: THIS PRODUCT IS INORGANIC AND IS NOT SUBJECT TO BIODEGRADABILITY

ACCUMULATION: BIOACCUMULATION OF THIS PRODUCT IN LIVING ORGANISMS IS NOT EXPECTED, CALCIUM CHLORIDE AND ITS IONS ARE UBIQUITOUS IN THE NATURAL ENVIRONMENT

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE PRODUCT SHOULD NOT BE DISPOSED OF TO THE SEWER UNLESS FULLY COMPLIANT WITH ALL REGULATORY AUTHORITIES THAT HAVE JURISDICTION TO REGULATE DISPOSAL BY SUCH MEANS. UNUSED OR CONTAMINATED PRODUCT SHOULD BE DISPOSED OF IN ORIGINAL CONTAINER BY A WASTE DISPOSAL CONTRACTOR LICENSED TO HANDLE THIS PRODUCT. INSTRUCTIONS FOR RESPONSIBLE COLLECTION OF TOTES ARE DISPLAYED ON TOTES—THEY SHOULD BE IN “DRIP DRY” STATE FOR PICKUP. ALL OTHER CONTAINERS SHOULD BE COLLECTED BY AN AUTHORIZED RECYCLER IF POSSIBLE AND SHOULD BE IN A “DRIP DRY” STATE.

SECTION 14: TRANSPORT INFORMATION

DOT/TDG SHIP NAME:	NOT REGULATED
DRUM/TOTE LABEL:	NONE
SPECIAL PRECAUTIONS:	NONE

SECTION 15: REGULATORY INFORMATION

EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Immediate (acute) Health Hazard
 All components of this product are on the TSCA (ACTIVE) list. This material contains no known products restricted under SARA Title III, Section 313 in amounts greater than or equal to 1%.



STATE REGULATIONS:

CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.

INTERNATIONAL REGULATIONS:

The identified components of this product are: listed (X), not listed (NL) or not determined (ND) on the chemical inventories of the following countries: Australia (AIIIC)-X, Canada (DSL or NDSL)-X, China (IECSC)-X, Europe (EINECS or ELINCS)-X, Japan (METI/CSCL, MHLW/ISHL)-X, South Korea (KECI)-X, New Zealand (NZIoC)-X, Philippines (PICCS)-X, Switzerland (SWISS)-ND, Taiwan (NECSI)-x, USA (TSCA)-X.

CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

D2B: Irritating to eyes

SECTION 16: OTHER INFORMATION

HAZARD RATINGS:

NFPA: HEALTH: 2, FLAMMABILITY: 0, INSTABILITY/ REACTIVITY: 0

HMIS: HEALTH: 2, FLAMMABILITY: 0, PHYSICAL HAZARD: 0

This information is intended solely for individuals trained in NFPA & HMIS hazard warning systems.

EMPLOYEE TRAINING:

EMPLOYEES SHOULD BE MADE AWARE OF ALL HAZARDS STATED IN THIS SDS.

This information is intended solely for individuals trained in NFPA & HMIS hazard warning systems.

EMPLOYEE TRAINING:

EMPLOYEES SHOULD BE MADE AWARE OF ALL HAZARDS STATED IN THIS SDS.

SDS Version 1: February 19, 2024; by: Quality Assurance

MANUFACTURES DISCLAIMER

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE AND LEVEL 7 CHEMICAL WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OR RELIANCE UPON THIS INFORMATION. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE AND SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES, WHICH INFRINGE VALID PATENTS, OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO THE HANDLERS AND USERS.

END OF DOCUMENT