

SECTION 1 - PRODUCT IDENTIFICATION

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|-----------------------|---|
| PRODUCT NAME: | FORMULA 7032 |
| PRODUCT USE: | COAGULANT |
| RESTRICTIONS ON USE: | Refer to label, available technical information, and other appropriate sections of this SDS. |
| UN NUMBER: | NOT REGULATED |
| PROPER SHIPPING NAME: | NOT REGULATED |
| MANUFACTURER'S NAME: | Garratt-Callahan Company |
| ADDRESS: | 50 Ingold Road, Burlingame, CA 94010-2206 |
| EMERGENCY PHONE: | North America: CHEMTREC: 1-800-424-9300 Outside North America: +1-703-527-3887 |
| BUSINESS PHONE: | Product Information: 650-697-5811 |
| SDS NUMBER: | SD7032 |
| DATE OF REVISION: | 11/6/2015 |

SECTION 2 - HAZARDS IDENTIFICATION

SIGNAL WORD: None

HAZARD STATEMENT: None

PRECAUTIONARY STATEMENTS: (PREVENTION)

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash all exposed skin/hair thoroughly after handling.

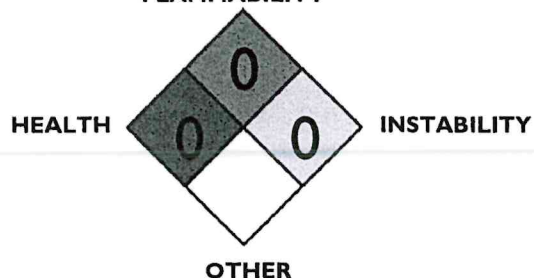
Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

| | | |
|-----------------------------------|----------|--|
| HEALTH HAZARD (BLUE) | 0 | Hazard Scale 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe *=Chronic hazard |
| FLAMMABILITY HAZARD (RED) | 0 | |
| REACTIVITY HAZARD (YELLOW) | 0 | |

**NFPA RATING
FLAMMABILITY**



SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Hazardous Ingredients</u> | <u>CAS#</u> | <u>EC#</u> | <u>ICSC#</u> | <u>WT%</u> |
|--|-------------|------------|--------------|------------|
| NO HAZARDOUS INGREDIENTS EXCEEDING REPORTABLE THRESHOLD QUANTITIES | | | | |

SECTION 4 - FIRST AID MEASURES

Call a POISON CENTER or doctor/physician if you feel unwell. Take a copy of this SDS to the health professional with the individual.

Refer to Section 11 for symptoms, effects, and likely routes of exposure for this product.

TARGET ORGANS:

ACUTE: None reported.

CHRONIC: None reported.

SKIN EXPOSURE: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Minimum flushing time is for 15 minutes. Remove exposed or contaminated clothing, taking care not to contaminate the eyes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

EYE EXPOSURE: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Use sufficient force to open the eyelids. Have the exposed individual "roll" their eyes. Minimum flushing time is for 15 minutes. If eye irritation persists get medical advice/attention.

INHALATION: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

INGESTION: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never induce vomiting or give diluents (milk or water) by mouth to someone who is unconscious, having convulsions, or unable to swallow. Call a POISON CENTER or doctor/physician if you feel unwell.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin and respiratory disorders, as well as conditions involving the "Target Organs" may be aggravated by prolonged exposures to this product. Exposed individual must seek immediate medical attention if any adverse effect occurs.

NOTES TO PHYSICIAN: Treat symptoms as demonstrated by signs and distress in the patient.

SECTION 5 - FIRE FIGHTING MEASURES

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| SUITABLE (AND UNSUITABLE) EXTINGUISHING MATERIALS: | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: | Decomposition products may include the following materials: halogenated compounds, metal oxide/oxides. |
| SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: | Firefighters should wear fully protective clothing (chemical impermeable, fully encapsulated suit) and positive pressure self-contained breathing apparatus. Do not release run off from fire control methods to sewer or waterways. |

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, ENVIRONMENTAL PRECAUTIONS AND EMERGENCY PROCEDURES.

WARNING: Any container expansion or rounding indicates pressure build-up. Use extreme caution. When opening, release pressure slowly through opening.

SPILL AND LEAK RESPONSE: Uncontrolled releases should be responded to by appropriately trained personnel using pre-planned procedures. Proper protective equipment should be used, refer to Section 8 - exposure controls.

Small Spill: Mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. P391: Collect spillage.

Large Spill: Restrict access to the area. Provide adequate protective equipment and ventilation. Stop leak if without risk. Remove chemicals which can react with the spilled material. Add dry inert material to contain and absorb spilled material. Prevent entry into surface waters, sewers, basements or confined areas, dike if needed. Ensure that exposure to product is not at a concentration exceeding regulatory limits. Decontaminate the area thoroughly. Decontaminate all response equipment with soapy water before returning to service. Place all spill residue in a suitable container and seal. P391: Collect spillage.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Keep out of reach of children. All employees who handle this material should be trained to handle it safely. Open containers slowly on a stable surface. As with all chemicals, avoid getting this product ON YOU or IN YOU. Avoid direct or prolonged contact with skin or eyes. Do not ingest. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors, dusts or mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately. Use only as directed. Refer to Section 8 for exposure controls.

CONDITIONS FOR SAFE STORAGE: Containers of this product must be properly labeled. Storage areas of this product should be clearly identified, well-illuminated, clear of obstruction and accessible only to trained and authorized personnel. Store containers in a clean, cool, well ventilated, dry location, away from direct sunlight, away from incompatible materials at temperatures between 50°F (10°C) - 100°F (37°C). Keep container tightly closed when not in use. P405: Store locked up. Do not ingest. Do not breathe vapor mist. Wash hands after handling. Refer to Section 10 for incompatibilities. Store in a well ventilated place. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation. Eyewash/safety shower station is recommended to be available near where this product is used/stored.

EXPOSURE LIMITS/GUIDELINES:

EXPOSURE LIMITS IN AIR

| CHEMICAL NAME | CAS# | ACGIH TLV | | OSHA PEL | OTHER |
|---|------|-----------|------|----------|-------|
| | | TWA | STEL | TWA | |
| NO HAZARDOUS INGREDIENTS EXCEEDING REPORTABLE THRESHOLD QUANTITIES | | | | | |

NE = Not Established

INGESTION: Wash all exposed skin/hair thoroughly after handling. Do not eat, drink or smoke when using this product.

RESPIRATORY PROTECTION: Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. Air-purifying respirators with dust/mist/fume/spray filters are recommended if operations may produce dusts, mists or sprays from this product.

EYE PROTECTION: Wash all exposed skin/hair thoroughly after handling. Wear chemical safety goggles or safety glasses with side shields. A face shield may also be necessary for splash protection.

SKIN PROTECTION: Wash all exposed skin/hair thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use chemically-resistant gloves and skin protection, when handling this product. Use body protection appropriate for task (e.g., lab coat, overalls).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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|---|----------------------------------|---|---|
| APPEARANCE and COLOR: | Colorless to light yellow liquid | VAPOR PRESSURE, mm Hg @ 20°C : | Not established |
| ODOR : | None | VAPOR DENSITY (Air=1): | 1 |
| ODOR THRESHOLD: | Not established | RELATIVE DENSITY@20°C (water=1): | 1.33 to 1.35 |
| pH: | 4 - 5 | SOLUBILITY IN WATER: | Easily soluble in the following materials: cold water and hot water |
| MELTING/FREEZING POINT: | -7°C (20°F) | PARTITION COEFFICIENT(n-octanol/water): | Not established |
| BOILING POINT: | 110°C (230°F) | AUTOIGNITION TEMPERATURE: | Not established |
| FLASHPOINT: | Not applicable | DECOMPOSITION TEMPERATURE: | Not established |
| EVAPORATION RATE (n-BuAc=1): | Not established | VISCOSITY: | Not established |
| FLAMMABILITY (SOLID/GAS): | Not applicable | VOLATILE ORGANIC COMPOUNDS (%): | Not established |
| FLAMMABLE LIMITS (in air by volume, %): | Not established | | |

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY: No specific test data related to reactivity available for this product or its ingredients.

STABILITY: Stable under normal condition of use and storage.

POSSIBILITY OF

HAZARDOUS REACTIONS: Under normal conditions of storage and use, hazardous reactions will not occur.

CONDITIONS TO AVOID: None known.

INCOMPATIBLE MATERIALS: Reactive or incompatible with the following materials: oxidizing materials and metals.

HAZARDOUS

DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICOLOGICAL EFFECTS: No data available for this product.

LIKELY ROUTES OF EXPOSURE: Skin/eye contact and inhalation.

RELATED SYMPTOMS: None known.

DELAYED/IMMEDIATE/CHRONIC EFFECTS FROM SHORT AND

LONG TERM EXPOSURES: None known.

NUMERICAL MEASURES OF

TOXICITY: Not established for this product.

CARCINOGENICITY: None of the components of this product are listed by the NTP, IARC, or regulated by OSHA as carcinogens.

SECTION 12 - ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ECOTOXICITY: Data not available for this product.

PERSISTENCE AND DEGRADABILITY: No data available for this product.

BIOLOGICAL ACCUMULATION POTENTIAL: No data available for this product.

MOBILITY IN SOIL: -2.49.

OTHER ADVERSE EFFECTS (i.e., hazardous to the ozone layer): No data available for this product.

BIOLOGICAL EXPOSURE INDICES: Currently, Biological Exposure Indices (BEIs) have not been determined for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL: Thoroughly drain/empty containers and offer for recycling. Refer to Section 8 for exposure controls - personal protection. P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14 - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME

DOT: NOT REGULATED

IMDG/IMO: NOT REGULATED

IATA/ICAO: NOT REGULATED

ENVIRONMENTAL HAZARDS

(i.e., MARINE POLLUTANT): None known.

TRANSPORT IN BULK (according to annex II marpol 73/78 and the IBC code): Not applicable.

SPECIAL PRECAUTIONS FOR USER: None known.

SECTION 15 - REGULATORY INFORMATION

United States and International Regulations

United States Regulations: **U.S. SARA REPORTING REQUIREMENTS:** The components of this product are subject to the reporting as listed below, requirements of Sections 302, 304, and 313 of Title of the Superfund Amendments and Reauthorization Act:

CHEMICAL NAME

NO HAZARDOUS INGREDIENTS
EXCEEDING REPORTABLE
THRESHOLD QUANTITIES

U.S. Regulations

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None.

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory.

SARA Title 311/312, Hazard Category: Acute Health: NO; Chronic: NO; Fire: NO; Reactive: NO; Sudden Release of Pressure: NO

California Safe Drinking Water and Toxic Enforcement Act (proposition 65): No component of this product is on the Proposition 65 list.

International Regulations

CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are on the DSL or NDSL inventories or are exempt from listing.

CANADIAN WHMIS CLASSIFICATION: Not classified.

SECTION 16 - OTHER INFORMATION

PREPARED BY: GARRATT CALLAHAN

DATE OF REVISION: 11/6/2015 Supercedes: 8/25/2015

Formula 7032 is registered with the NSF to the Nationally Recognized Health Effects Standard (ANSI 60) for chemicals which are used to treat drinking water; with NSF DCC# DA01018.

MAXIMUM USE LEVEL OF THIS PRODUCT IN POTABLE WATER: 250 mg/l.

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