

6 LB. SODIUM CHLORATE

MANUFACTURER

HELENA CHEMICAL COMPANY

6075 POPLAR, SUITE 500

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EFFECTIVE: 11/05/95

I. IDENTIFICATION

CHEMICAL NAME: Sodium Chlorate

CHEMICAL FAMILY: Chlorates

FORMULA: NaClO₃

SYNONYMS: Chlorate Defoliant 6 lb.

CAS NUMBER: 7775-09-9

EPA REGISTRY NO.: 5905-461

II. PHYSICAL DATA

BOILING POINT: >90 Degrees C.

FREEZING POINT: <32 Degrees F.

SPECIFIC GRAVITY: 1.515 gms/cc

VAPOR PRESSURE: Not determined.

VAPOR DENSITY: Not determined.

SOLUBILITY IN WATER: 97%

PERCENT VOLATILES: <1%

EVAPORATION RATE: Not determined.

MELTING POINT: Not applicable.

APPEARANCE & ODOR: Light brown liquid suspension, no odor.

III. INGREDIENTS

MATERIAL	%	TLV (UNITS)	HAZARD
Sodium Chlorate	47.20	Not established	Oxidizer
Inerts (water & clays)	52.70	Not applicable	Nonhazardous

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Noncombustible.

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE LIMITS: Not applicable.

EXTINGUISHING MEDIA: Water preferred for extinguishing fires that involve sodium chlorate. Smothering type extinguishers are not recommended.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective equipment. Chlorate is not combustible; combustion of other material may be accelerated. Avoid breathing fumes from fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Temperatures greater than 150 F. will decompose the product and liberate oxygen. This property makes "smothering type" fire extinguishing agents ineffective.

V. HEALTH HAZARD

CARCINOGENICITY INFORMATION: None currently known.

ACUTE EFFECTS OF OVEREXPOSURE

SWALLOWING: Moderately toxic—Acute Oral LD₅₀ (rat) = 1,200 mg/kg.

SKIN ABSORPTION: No hazard noted.

INHALATION: No hazards noted.

SKIN CONTACT: Mild skin irritation, Skin (rabbit) 500 mg/m³/24H.

EYE CONTACT: Corrosive to eyes, May cause eye injury.

CHRONIC EFFECTS: Ingestion of large amounts may cause death. Symptoms include abdominal pain, nausea, vomiting, and cyanosis.

OTHER HEALTH HAZARD:

Note: If clothing catches fire, drench with water; fire blankets are not recommended.

EMERGENCY AND FIRST AID PROCEDURES

SWALLOWING: Drink a large amount of milk, egg whites, or gelatin solution. If these are not available, drink large amounts of water. Get medical attention immediately.

SKIN: Wash skin thoroughly with soap and water. If irritation develops, consult a physician. Launder clothing immediately.

INHALATION: Move to fresh air if irritation is noted. Consult a physician if irritation persists.

EYES: Flush eyes with water for 15 minutes, holding eyelids open. If irritation develops, consult a physician.

NOTES TO PHYSICIAN: Ingestion of this material may result in mucosal damage. Use of gastric lavage may be contraindicated.

VI. REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: None currently known.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None currently known.

INCOMPATIBILITY MATERIALS: Strong acids, organic substances, sulphur, powder metals, and ammonia compounds.

HAZARDOUS COMBUSTION: Free oxygen and chlorine dioxide under fire conditions.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Rope off and contain spill area. Wash spill area with water. Do not use an organic absorbent such as sawdust. Wood contaminated with this material may be rendered flammable. Absorb material with sand or clay.

WASTE DISPOSAL METHOD: This material must be disposed of according to Federal, State, or local procedures under The Resource Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATION: None needed under normal conditions.

VENTILATION: Local exhaust sufficient.

GLOVES: Rubber, neoprene, or nitrile.

EYES: Chemical workers goggles.

OTHERS: Emergency shower, eye wash station, impervious apron, and footwear.

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep out of reach of children. Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams, or ponds. Once dried, clothing, paper, wood or leather contaminated with chlorate ignites readily and burns fiercely. Store in a cool, dry, fire resistant area; segregated from acids, solvents, oils, and organic ammonia salts.

OTHER PRECAUTIONS:

RCRA HAZARDOUS WASTE NUMBER: D001, Oxidizer.

CERCLA REPORTABLE QUANTITY: 100 lbs/D001 Waste

SARA SECTION 313: Not listed.

SARA THRESHOLD PLANNING QUANTITY: Not listed.

49 CFR 172.101, APPENDIX A: Not listed.

49 CFR 172.101, APPENDIX B: Not listed.

X. SHIPPING INFORMATION

D.O.T. DATA

PROPER SHIPPING NAME: Sodium Chlorate, Solution, Class 5.1, UN2428, PG II

HAZARD CLASS: Oxidizer (5.1)

IDENTIFICATION NO.: UN2428

LABELS REQUIRED: Oxidizer (5.1)

PLACARDING: Oxidizer (5.1)

FREIGHT CLASSIFICATION: Desiccants/Defoliant, Plant, Liquid, NOIBN

CHEMICAL NAME	EQUIVALENT R.Q.
Not applicable	Not applicable

XI. GENERAL PRODUCT INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION RATING:

(Rating Level: 4-Extreme 3-High 2-Moderate 1-Slight 0-Minimum)

HEALTH: 2

FIRE: 0

REACTIVITY: 0

S.A.R.A. TITLE III HAZARD CLASSIFICATION: (Yes/No)

IMMEDIATE (ACUTE) HEALTH: Y

SUDDEN RELEASE OF PRESSURE: N

FIRE: N

DELAYED (CHRONIC) HEALTH: N

REACTIVE: N

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