



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

### SODIUM PERCHLORATE, ANHYDROUS

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc.	Emergency Number: Chemtrec	800-424-9300
135 Newbury Street		703-527-3887
Framingham, MA 01701	Information Number:	800-238-0001

Date: August 2007

Synonyms: None known

CAS #: 7601-89-0

DOT Hazard Class: Oxidizer UN 1502

#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Sodium Perchlorate 100%

#### SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: White deliquescent crystals. Oxidizer, harmful. Explosive when mixed with combustible material. Harmful by inhalation and if swallowed. Keep away from combustible material.

POTENTIAL HEALTH EFFECTS:

- Skin:** May cause skin irritation.  
**Eyes:** May cause irritation or burning.  
**Inhalation:** May cause irritation to the respiratory tract.  
**Ingestion:** Target organ(s): thyroid, blood.

CARCINOGENICITY: Not Identifiable

#### SECTION 4 - FIRST AID MEASURES

- Skin:** Immediately wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse.  
**Eyes:** Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.  
**Inhalation:** Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.  
**Ingestion:** Wash out mouth with water.

Page 1 of 4

AMERICAN INTERNATIONAL CHEMICAL, INC. 800 238 0001

Sodium Perchlorate Anhydrous

**On All Of The Above:** Consult a physician if symptoms persist.

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## **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Non Combustible

Flammable Limits: Non Combustible

Extinguishing Media: Water spray, appropriate foam.

Special Fire Fighting Procedures:

Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

Unusual Fire Explosion Hazard: Warning: strong oxidizer. Contact with other material may cause fire. Emits toxic fumes under fire conditions.

Auto Ignition Temperature: Not Applicable.

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## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

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## **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Avoid prolonged or repeated exposure. Use normal personal hygiene and housekeeping. Harmful solid. Irritant.

Keep tightly closed. Do not store near, nor allow contact with, clothing and other combustible material. Store in a cool, dry area.

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## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Use only in a chemical fume hood. Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: None Established

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H<sub>2</sub>O=1): Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: Not Applicable

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Appreciable

pH: 5% solution in water (carbon dioxide free) at 25°C = 6.0-8.0

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**SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Will form toxic fumes upon decomposition.

KEEP AWAY FROM: Organic materials, strong acids. Forms explosive mixtures with: finely powdered metals; reducing agents; Magnesium.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

Acute effects: harmful if inhaled or swallowed. Causes eye and skin irritation. Material is irritating to mucous membranes and upper respiratory tract. Target organ(s): thyroid, blood.

RTECS #: SC9800000 Perchloric Acid, Sodium Salt

Toxicity Data

ORL-RAT LD50:2100 MG/KG

GTPZAB 17(8),33,1973 IPR-MUS

LD50:551 MG/KG

COREAF 257,791,1963

Only selected registry of toxic effects of chemical substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

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**SECTION 12 - ECOLOGICAL INFORMATION**

Not Available

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

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**SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME: Sodium Perchlorate

TECHNICAL SHIPPING NAME: Sodium Perchlorate

U.N./NUMBER: 1502

D.O.T. HAZARD CLASS: 5.1

D.O.T. LABEL: Sodium Perchlorate, UN 1502, Class 5.1, Group II

D.O.T. PLACARD: Oxidizer

PRODUCT LABEL: Oxidizer

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**SECTION 15 - REGULATORY INFORMATION**

OSHA STATUS: Not listed

TSCA STATUS: Section 8(B)

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance Not listed

Section 313 Toxic Chemicals: Not listed

Section 311/312 Hazard Category: Fire hazard, Immediate (acute) health hazard.

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**SECTION 16 - OTHER INFORMATION**

Reason for issue: Changed Date

**This information is given without any warranty or representation. It is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. American International Chemical, Inc., shall not be held liable for any damage resulting from handling or contact with the above product. It is offered solely for your consideration, investigation and verification.**

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