



SAFETY DATA SHEET

Preparation Date: No data available **Revision Date: 06/30/2015** Revision Number: G1

Product identifier

Product code: S1378

Product Name: SODIUM PERCHLORATE, MONOHYDRATE, REAGENT, ACS

Other means of identification

Synonyms: No information available

CAS #: 7791-07-3 RTECS# SC9850000 CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available. Uses advised against No information available

Spectrum Chemical Mfg. Corp Supplier:

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Chemtrec 1-800-424-9300 **Emergency telephone number** Martin LaBenz (West Coast) **Contact Person:**

Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Oxidizing solids	Category 3

Label elements

Product code: S1378

Warning

Hazard statements

May be harmful if swallowed

Causes skin irritation

Causes serious eye irritation

May cause damage to organs through prolonged or repeated exposure

May cause respiratory irritation

May intensify fire; oxidizer



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful if swallowed

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep/Store away from clothing/ .? /combustible materials

Take any precaution to avoid mixing with combustibles .?

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

Precautionary Statements - Response

Specific treatment (see .? on this label)

Get medical advice/attention if you feel unwell

In case of fire: Use CO2, dry chemical, or foam to extinguish.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

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.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

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Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Sodium Perchlorate, Monohydrate	7791-07-3	100	*
7791-07-3			

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth

resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device. Immediate medical attention is required.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Causes serious eye irritation. Causes skin irritation. May cause irritation of respiratory tract.

May be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: Mixtures with perchlorates and organic materials, or

combustible materials, or oxidizable materials are easily

ignited by friction or heat.

Explosive decomposition may occur under fire conditions.

Forms explosive mixtures with alcohols.

Mixture of calcium hydride or strontium hydride and perchlorates explodes violently when rubbed in a mortar. Forms explosive mixtures with combustible, organic or other easily oxidizable materials. These mixtures are easily ignited

by friction or heat.

Perchlorates explode when mixed with reducing agents or

when projected into red-hot charcoal

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes

and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled

material.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning upSweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice. Keep away from combustible material.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Deliquescent.

Product name: SODIUM
PERCHLORATE, MONOHYDRATE,
REAGENT, ACS

Incompatible Materials:

Acids. Combustible materials. Organic materials. Reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Sodium Perchlorate, Monohydrate	None	None	None	None
7791-07-3				

Canada

Components	Alberta	British Columbia	Ontario	Quebec
Sodium Perchlorate, Monohydrate	None	None	None	None
7791-07-3				

Australia and Mexico

Components	Australia	Mexico
Sodium Perchlorate, Monohydrate	None	None
7791-07-3		

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

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Eye protection: Safety glasses Safety glasses with side-shields

Skin and body protection: Chemical resistant apron. Gloves. Long sleeved clothing.

Respiratory protection: Effective dust mask Wear respirator with dust filter.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Solid. Deliquescent. Crystals. White.

Odor: **Taste** Molecular/Formula weight:

No information available 140.46 Odorless.

Formula: Flammability: Flash point (°C): No information available Non-flammable No data available

Flashpoint (°C/°F): Flash Point Tested according to: **Lower Explosion Limit (%):** No information available

No information available. Not available

Autoignition Temperature (°C/°F): **Upper Explosion Limit (%):** :Ha

No information available No information available No information available

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

130°C/266°F No information available No information available

Specific gravity: **Bulk density:** Vapor pressure @ 20°C (kPa):

No information available No information available 2.02

Density (g/cm3): **Evaporation rate:** Vapor density:

No information available No information available No information available

VOC content (g/L): Odor threshold (ppm): Partition coefficient (n-octanol/water): No information available No information available

No information available

Viscosity: Miscibility: Solubility:

No information available No information available Easily soluble in hot water

Soluble in cold water

10. STABILITY AND REACTIVITY

Reactivity

Oxidizer. Reacts with reducing agents, organic material, combustible materials, and metals (powdered aluminum, iron, sodium peroxide, silver salts)

Chemical stability

Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Deliquescent in moist air. Incompatible materials.

Incompatible Materials: Acids. Combustible materials. Organic materials. Reducing agents.

Hazardous decomposition products: No information available

Other Information

Product code: S1378

No information available Corrosivity:

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Product name: SODIUM PERCHLORATE, MONOHYDRATE, REAGENT, ACS

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Sodium Perchlorate, Monohydrate - 7791-07-3

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

Product code: S1378

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Inhalation May cause respiratory tract irritation. May cause methemoglobinemia and the ability

of the blood to carry oxygen causing headache, fatigue, dizziness, and a blue color

to the skin and lips. May also affect the kidneys if inhaled.

Ingestion May be harmful if swallowed. May cause irritation of the digestive tract with nausea

and vomiting. May also affect behavior (excitment), respiration (dyspnea),

metabolism, blood, and liver, kidneys.

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Inhalation: It may affect the kidneys. It may affect the blood (red blood cell count)

and cause anemia. It may also cause methemoglobinemia.

Ingestion: Prolonged or repeated ingestion of large amounts may affect the thyroid. Perchlorate affects the ability of the thyroid gland to take up iodine. Exposure of people to higher amounts of perchlorate for a long time may lower the level of thyroid

activity leading to hypothyroidism.

Sensitization: No information available

Mutagenic Effects: May affect genetic material

Carcinogenic effects: Not considered carcinogenic

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Sodium Perchlorate, Monohydrate	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity No data is available

Reproductive Effects:

Developmental Effects:

No information available

No information available

No information available

Specific Target Organ Toxicity

STOT - single exposure No information available

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Target Organs:

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

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Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Product code: S1378 Product name: SODIUM PERCHLORATE, MONOHYDRATE, REAGENT, ACS

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Perchlorate, Monohydrate	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1502

Proper Shipping Name: Sodium perchlorate

Hazard Class: 5.1

Subsidiary Risk:

Packing Group: II ERG No: 140

Marine Pollutant No data available

DOT RQ (lbs):No information available

Symbol(s):

TDG (Canada)

UN-No: UN1502

Proper Shipping Name: Sodium perchlorate

Hazard Class: 5.1

Subsidiary Risk: No information available

Packing Group:

Description: No information available

ADR

UN-No: UN1502

Proper Shipping Name: Sodium perchlorate

Hazard Class: 5.1 Packing Group:

Subsidiary Risk:No information availableClassification Code:No information availableDescription:No information availableCEFIC Tremcard No:No information available

IMO / IMDG

Product code: S1378

UN-No: UN1502

Proper Shipping Name: Sodium perchlorate

Hazard Class: 5.1

Subsidiary Risk: No information available

Packing Group:

Description:No information availableIMDG Page:No information availableMarine PollutantNo information available

EMS: F-H

MFAG: No information available

Product name: SODIUM PERCHLORATE, MONOHYDRATE, REAGENT, ACS

14. TRANSPORT INFORMATION

Maximum Quantity: No information available

RID

UN-No: UN1502

Proper Shipping Name: Sodium perchlorate

Hazard Class: 5.1

Subsidiary Risk: No information available

Packing Group:

Classification Code: No information available Description: No information available

ICAO

UN-No: UN1502

Proper Shipping Name: Sodium perchlorate

Hazard Class: 5.1

Subsidiary Risk: No information available

Packing Group:

Description: No information available

IATA

UN-No: UN1502

Proper Shipping Name: Sodium perchlorate

Hazard Class: 5.1

Subsidiary Risk: No information available

Packing Group: II ERG Code: 5L

Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium Perchlorate, Monohydrate	Not Listed	Not present	Not present	Not present	Present	Present	Not present

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity		Female Reproductive
			Toxicity	Toxicity:
Sodium Perchlorate, Monohydrate	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Product code: S1378

	Substances and their	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Chemical Category	Section 313 - Reporting de minimis
Sodium Perchlorate, Monohydrate	None	None	None	None	None

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium Perchlorate, Monohydrate	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

C Oxidizing materials D2B Toxic materials

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components		Canada (NDSL)
Sodium Perchlorate, Monohydrate	Not Listed	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
Sodium Perchlorate, Monohydrate	Not listed	Not listed

EU Classification

R-phrase(s)

R 9 - Explosive when mixed with combustible material.

R22 - Harmful if swallowed.

S -phrase(s)

S13 - Keep away from food, drink and animal feedingstuffs.

S22 - Do not breathe dust.

S27 - Take off immediately all contaminated clothing.

Components	Classification	Concentration Limits:	Safety Phrases
Sodium Perchlorate, Monohydrate		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Product code: S1378

O - Oxidising.

Product name: SODIUM PERCHLORATE, MONOHYDRATE, REAGENT, ACS

16. OTHER INFORMATION

Revision Date: 06/30/2015
Prepared by: Sonia Owen

Disclaimer:

Product code: S1378

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet