

Safety Data Sheet

Product Name: Sodium Perborate Tetrahydrate
CAS #: 10486-00-7
Chemical Formula: $\text{BNaO}_3 \cdot 4\text{H}_2\text{O}$

Company: AllChem Industries ICG, Inc. **Emergency Number:** CHEMTREC 800-424-9300
6010 NW First Place
Gainesville, FL 32607
Phone: 352-378-9696

Recommended use: Used as oxidizing agent, cleaning, bleaching, stain removal etc.

Restrictions on use: No data available.

GHS classification:	Category
Oxidizing solids	2
Acute Toxicity, Oral	4
Serious eye damage	1
Specific target organ toxicity - Respiratory System	3
Reproductive Toxicity	1B
Acute Aquatic Toxicity	3

GHS Label elements:

Pictograms:



Signal Word: Danger

Hazard statements:

Code	Description
H272	May intensify fire; oxidizer
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child
H402	Harmful to aquatic life.

Precautionary statements:

Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/ hot surfaces. – No smoking.
P220	Keep away from heat.
P221	Take any precaution to avoid mixing with combustibles.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat drink or smoke when using this product.
P271	Use only outdoors or in well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/clothing, eye/face protection.
P301, P312	IF SWALLOWED: Immediately call a POISON CENTER or doctor if you feel unwell.
P303, P361, P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304, P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305, P351, P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308, P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/doctor.
P330	Rinse mouth.
P332, P313	If skin irritation occurs: Get medical advice/attention.
P370, P378	In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.
P403, P233	Store in well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container in accordance with local/regional regulations.

Other classifications:

NFPA Rating:	
Health:	2
Fire:	0
Reactivity:	1

HMIS Rating:	
Health:	2
Flammability:	0
Physical:	1

Chemical Name:	CAS Number	Concentration	EC Number
Sodium Perborate Tetrahydrate	10486-00-7	95 %	239-172-9
Sodium Metaborate	10555-76-7	1 – 3 %	
Water	7732-18-5	Balance	

- Inhalation:** Remove to fresh air.
 If not breathing, apply artificial respiration.
 If breathing is difficult, give oxygen provided a qualified individual is present.
 Get medical attention.
- Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel.
 If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
 Rinse mouth with water.
 Never give anything by mouth to an unconscious person.
 Do not use mouth-to-mouth method if victim ingested the substance.
 Get immediate medical attention.
- Skin Contact:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
 Wash clothing before reuse or discard if they cannot be thoroughly cleaned.
 Get medical assistance if irritation persists.
- Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present.
 Get medical attention.

Note to Physician: Treat symptomatically and supportively.

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Use water to cool exposed containers.

Special Protective Equipment: Wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full protective gear.

Emergency Procedures: Wear personal protection equipment.
Avoid dust formation.
Ensure adequate ventilation.
Avoid breathing vapors, dust, mist or gas.
Keep unnecessary personnel away.

Environmental Precautions: Prevent further leakage or spillage if safe to do so.
Do not let product enter drains.
Discharge into the environment must be avoided.

Methods of containment/cleanup: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal.

Handling: Wash thoroughly after handling.
Use only in well-ventilated area.
Avoid formation of dust and aerosols.
Avoid contact with eyes, skin and clothing.
Avoid ingestion and inhalation.

Storage: Keep away from heat, sparks, flame and other sources of ignition.
Keep away from incompatible substance, reducing agents, heavy metal and salts.
Store tightly closed container in a cool, dry, well-ventilated area.

Exposure Limits: No exposure limits established.

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
An emergency eye wash/shower must be readily accessible to the work area.

Personal Protective Equipment:

- Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134. In confined areas, use a self-contained breathing apparatus.
- Skin Protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.
Recommended glove material: Nitrile rubber.
- Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Appearance:	White, free-flowing granule
Odor:	No data available
Odor Threshold:	No data available
pH:	9.9 – 10.9
Melting/Freezing Point:	60 °C
Boiling Point:	No data available
Decomposition Temperature:	No data available
Flash Point:	No data available
Auto-ignition Temperature:	No data available
Flammability/Explosive Limits:	No data available
Vapor Pressure:	10 KPa at 25 °C
Vapor Density (air=1):	No data available
Relative Density (water=1):	No data available
Solubility (in water):	2.55 – 3.75 g/L at 15°C
Partition coefficient: n-Octanol/water:	No data available
Evaporation Rate (Butyl Acetate=1):	No data available
Molecular Weight:	153.86 g/mol

Stability: Stable at room temperature and under normal conditions.

Hazardous Reactions: No data available

Conditions to Avoid: No data available

Incompatible Materials: Metals, Metallic salts, acids, Bases, Reducing agents

Hazardous Decomposition Products: Borane/boron oxides, Sodium oxides

Potential Health Effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin Contact: Causes skin irritation.

Eye Contact: Cause serious eye damage.

Ingestion: Harmful if swallowed.

Numerical Measures of Acute Toxicity:

<u>Route:</u>	<u>Test:</u>	<u>Subject:</u>	<u>Value:</u>	<u>Time:</u>
Oral	LD 50	Rat	1,200 mg/kg	
Dermal	LD 50	Rabbit	> 2,000 mg/kg	

Additional Information:

RTEC #: SC7350000

Carcinogenicity: This product is not classified as a carcinogen by IARC or U.S. ACGIH, NTP or OSHA.

Reproductive toxicity: Presumed human reproductive toxicant May damage the unborn child. Suspected of damaging fertility.

Serious eye damage/irritation: Severe eye irritation

Skin corrosion/irritation: No skin irritation

STOT-Single Exposure: May cause respiratory tract irritation.

Ecotoxicity:

<u>Group:</u>	<u>Test:</u>	<u>Subject:</u>	<u>Value:</u>	<u>Time:</u>
Fish:	LC 50	Danio rerio	51 mg/l	96 hours
Aquatic invertebrates:	EC 50	Daphnia magna	11 mg/l	48 hours
Aquatic plants:	IC 50	Green Algae	26.8 mg/l	96 hours

Persistence and Degradability: Readily Biodegradable.

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable

Disposal: Dispose of according to Federal, State, and Local Regulations

The information in this section is for reference only and should not take the place of a bill of lading specific to an order.

Product is not regulated for transport per 49 CFR

US Federal - TSCA: This product is listed on the TSCA inventory.

Revision Date: May 1, 2017

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