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MATERIAL SAFETY DATA SHEET (MSDS)

SODIUM PERBORATE LR (TETRAHYDRATE)

1 - Chemical Product

MSDS Name: Sodium perborate tetrahydrate
 Synonym: N.A

Cas NO-10486-00-7

Product Coad: S0196305000

Molecular Formula: NaO3B.4H2O
 Molecular Weight: 162.358

2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
10486-00-7	Sodium Perborate Tetrahydrate		unlisted

3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Irritating to eyes.

Potential Health Effects

Eye: Causes eye irritation. Skin: Causes skin irritation.

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation.

Chronic: Prolonged or repeated skin contact may cause dermatitis.

4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

5 - FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire.

Extinguishing Media: Use water only!

6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal.

7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Avoid contact with skin and eyes.

Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with clothing and other combustible materials. Avoid ingestion and inhalation. Use with adequate ventilation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Do not store near combustible materials. Store in a cool, dry place.

Keep away from reducing agents.

8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits CAS# 10486-00-7: Personal Protective Equipment Eyes: Wear appropriate protective

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eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: white

Odor: Not available.

pH: Not available.

Vapor Pressure: Not applicable.

Viscosity: Not applicable.

Boiling Point: Decomposes.

Freezing/Melting Point: 65 deg C

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: > 250 deg C

Solubility in water: Slightly soluble in water.

Specific Gravity/Density: Not available

10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Combustible materials; strong reducing agents; heavy metal salts Hazardous Decomposition Products:

Irritating and toxic gases, toxic fumes of sodium oxide, oxygen.

Hazardous Polymerization: Has not been reported

11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 10486-00-7: SC7350000 LD50/LC50:

CAS# 10486-00-7: Draize test, rabbit, eye: 50 mg Moderate; Oral, mouse: LD50 = 1060 mg/kg; Oral, rat: LD50 = 1200 mg/kg.

Carcinogenicity:

Sodium Perborate Tetrahydrate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

12 - ECOLOGICAL INFORMATION

13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

14 - TRANSPORT INFORMATION

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

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MATERIAL SAFETY DATA SHEET (MSDS)**SODIUM PERBORATE LR (TETRAHYDRATE)****15 - REGULATORY INFORMATION**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Risk Phrases:

R 36 Irritating to eyes.

Safety Phrases:

S 25 Avoid contact with eyes.

S 26 In case of contact with eyes, rinse immediately
with plenty of water and seek medical advice.

WGK (Water Danger/Protection)

CAS# 10486-00-7: 1

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 10486-00-7 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 10486-00-7 is not on the TSCA Inventory because it is a hydrate.

It is considered to be listed if the CAS number for the anhydrous form
is on the inventory (40CFR720.3(u)(2)).

16. Other Information

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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