

# SAFETY DATA SHEET

Creation Date 20-Jun-2011

Revision Date 30-Apr-2019

Revision Number 5

1. Identification

Product Name

# Sodium perborate tetrahydrate

Cat No. :

# AC223200000; AC223200010; AC223200050; AC223200250; AC223202500

CAS-No Synonyms 10486-00-7 No information available

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

#### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

### 2. Hazard(s) identification

#### **Classification**

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

Acute Inhalation Toxicity - Dusts and Mists Serious Eye Damage/Eye Irritation Reproductive Toxicity Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 4 Category 1 Category 1B Category 3

#### Label Elements

Signal Word Danger

Hazard Statements Causes serious eye damage Harmful if inhaled May cause respiratory irritation

May damage the unborn child. Suspected of damaging fertility



# Precautionary Statements

#### Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Response IF exposed or concerned: Get medical attention/advice Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

### 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Sodium perborate tetrahydrate	10486-00-7	>95
Sodium perborate	7632-04-4	-

	4. First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.				
Inhalation	Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.				
Ingestion	Do NOT induce vomiting. Get medical attention.				
Most important symptoms and	Causes eye burns.				
effects Notes to Physician	Treat symptomatically				
	5. Fire-fighting measures				

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Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Oxides of boron. Oxygen.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health 2	Flammability 0	Instability 0	Physical hazards N/A
		6. Accidental rel	ease measures	
Personal Pre	ecautions			ersonal protective equipment as
Environmen	tal Precautions	required. Avoid contact with See Section 12 for addition		
Methods for Up	Containment and Clea	an Sweep up and shovel into s environment.	uitable containers for disposa	. Do not let this chemical enter the
		7. Handling a	and storage	
Handling		Do not breathe dust. Do no fume hood.	t get in eyes, on skin, or on clo	thing. Use only under a chemical
Storage				ct specification and/or product container tightly closed. Keep at
	8. E	xposure controls /	personal protection	on
Exposure G	uidelines_	•	in any hazardous materials w ion specific regulatory bodies.	ith occupational exposure
Engineering	Measures	•	n, especially in confined areas se to the workstation location.	. Ensure that eyewash stations
Personal Pro	otective Equipment			

Eye/face Protection	Wear appropriate protective 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 and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

$\mathbf{\circ}$	Device			properties
9	Physical	and	chemical	nronerites

White

Powder Solid

**Physical State** Appearance Odor **Odor Threshold** pН Melting Point/Range **Boiling Point/Range** Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density Density Specific Gravity Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity **Molecular Formula Molecular Weight** 

Odorless No information available 10.4 1% aq.solution 60 °C / 140 °F No information available No information available Not applicable No information available No data available No data available 1.3 mbar @ 30 °C Not applicable 1.731 g/cm3 No information available 21.5 g/l (18°C) No data available No information available 150 - 400 °C Not applicable B Na O3 . 4 H2 O 153.86

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Finely powdered metals, Strong reducing agents, Combustible material	
Hazardous Decomposition Products Oxides of boron, Oxygen		
Hazardous Polymerization	No information available.	
Hazardous Reactions	None under normal processing.	

### 11. Toxicological information

#### Acute Toxicity

Product Information Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation

Sodium perborate tetrahydrate LD50 = 2567 mg/kg (Rat) Not listed			Not listed	1.165 mg	/l (rabbit; 4 h)	
<b>Toxicologically Syn</b>	ergistic	No information ava	ailable			
Products						
Delayed and immed	iate effects as w	ell as chronic effe	cts from short a	nd long-term expos	sure	
Irritation		Causes eye burns				
•						
Sensitization		No information ava	allable			
Carcinogenicity		The table below in	dicates whether e	each agency has liste	ed any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium perborate tetrahydrate	10486-00-7	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium perborate	7632-04-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect				ssible risk of harm to	the unborn child.	
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	d No information available				
Endocrine Disrupto	r Information	No information available				
Other Adverse Effect	Other Adverse Effects See actual entry in RTECS for complete information.					

# 12. Ecological information

Ecotoxicity Do not empty into drains.

Component	Freshw	ater Algae	Freshwater Fish	Microtox	Water Flea
Sodium perborate	3.3 mg/l (	(Selenastrum	51 mg/l (Brachydanio rerio;	500 mg/l (activated sludge;	11 mg/l (Daphnia magna; 48
tetrahydrate	capricori	nutum; 72 h)	tum; 72 h) 96 h) 14 d) (Respiration inhibition)		
Persistence and Degrada	ersistence and Degradability Soluble in water Persistence is unlikely based on information available.				
Bioaccumulation/ Accun	paccumulation/ Accumulation No information available.				
Mobility		Will likely be	mobile in the environment	due to its water solubility.	
		13. Di	sposal considera	ations	
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.					local, regional, and
		14. T	ransport inform	ation	
DOT UN-No Proper Shipping Nan Hazard Class Packing Group	ne	UN3377 SODIUM PE 5.1 III	RBORATE MONOHYDRA	TE	

<u>TDG</u> UN-No Proper Shipping Name Hazard Class Packing Group IATA	UN3377 SODIUM PERBORATE MONOHYDRATE 5.1 III
UN-No Proper Shipping Name Hazard Class Packing Group	UN3377 SODIUM PERBORATE MONOHYDRATE 5.1 III
IMDG/IMO UN-No Proper Shipping Name Hazard Class Packing Group	UN3377 SODIUM PERBORATE MONOHYDRATE 5.1 III
	15. Regulatory information

#### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Sodium perborate tetrahydrate	10486-00-7	-	-	-
Sodium perborate	7632-04-4	Х	ACTIVE	-

Legend: TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Sodium perborate tetrahydrate	10486-00-7	-	-	-	Х	Х	Х	Х	-
Sodium perborate	7632-04-4	Х	-	231-556-4	Х	Х	Х	Х	KE-31575

#### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable

#### **U.S.** Department of Transportation

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	20-Jun-2011 30-Apr-2019 30-Apr-2019 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**