

SAFETY DATA SHEET

Creation Date 24-Nov-2009 Revision Date 30-Apr-2018 Revision Number 5

1. Identification

Product Name Sodium tetraethylborate

Cat No.: AC363880000; AC363880010; AC363880050

CAS-No 15523-24-7

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific Acros Organics
One Reagent Lane One Reagent Lane
Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Tel: (201) 796-7100

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)

Substances/mixtures which, in contact with water, emit Category 2

flammable gases

Pyrophoric solids Category 1

Label Elements

Signal Word

Danger

Hazard Statements

In contact with water releases flammable gas Catches fire spontaneously if exposed to air



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Sodium tetraethylborate

Precautionary Statements

Prevention

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

Do not allow contact with air

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

Keep away from any possible contact with water, because of violent reaction and possible flash fire

Handle under inert gas. Protect from moisture

Skin

Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store under an inert atmosphere

Store in a dry place. Store in a closed container

Disposa

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 tetraethylborate | 15523-24-7 | >95 |

4. First-aid measures

General Advice If symptoms persist, call a physician.

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 plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Inhalation Move to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms and

effects

Notes to Physician

. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Treat symptomatically

Fire-fighting measures

Suitable Extinguishing Media Dry chemical or CO 2.

Unsuitable Extinguishing Media DO NOT USE WATER

Flash Point No information available Method - No information available

Autoignition Temperature

Explosion Limits

Upper No data available
Lower No data available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Containers may explode when heated. Contact with water liberates extremely flammable gases. Pyrophoric: Spontaneously flammable in air.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO2) Oxides of boron

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.

NFPA

| Health | Flammability 4 | instability | Physical nazards |
|--------|-----------------|----------------|------------------|
| 1 | | 3 | W |
| | 6 Accidental re | lease measures | |

Personal Precautions Environmental Precautions Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation.

Should not be released into the environment.

Up

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

7. Handling and storage Wear personal protective equipment. Avoid ingestion and inhalation. Avoid dust formation. Handling

Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Handle under an inert atmosphere.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area.

Keep away from heat and sources of ignition. Keep away from water. Store contents under

argon. Protect from moisture.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Ensure that eyewash stations and safety showers are close to the workstation location. **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Use explosion-proof

electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection**

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Long sleeved clothing. Skin and body protection

Respiratory Protection 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.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Solid
Appearance Off-white

Odor No information available
Odor Threshold No information available
pH No information available

Melting Point/Range 140 - 142 °C / 284 - 287.6 °F

Boiling Point/RangeNo information availableFlash PointNo information availableEvaporation RateNot applicable

Flammability (solid,gas)

No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicable

Specific GravityNo information availableSolubilityReacts violently with water

Partition coefficient; n-octanol/water No data available

Autoignition Temperature Decomposition Temperature

ViscosityNot applicableMolecular FormulaC8 H20 B NaMolecular Weight150.04

10. Stability and reactivity

Reactive Hazard Yes

Stability Water reactive. Pyrophoric: Spontaneously flammable in air. Moisture sensitive. Air

sensitive.

Conditions to Avoid Exposure to air. Exposure to moisture. Incompatible products. Excess heat. Keep away

from open flames, hot surfaces and sources of ignition. Exposure to moist air or water.

No information available

Incompatible Materials Acids, Oxidizing agents, Halogens

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Oxides of boron

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product InformationNo acute toxicity information is available for this product

Component Information
Toxicologically Synergistic
No information available

Products

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

 Irritation
 No information available

 Sensitization
 No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component C | CAS-No IARC | CAS-No | NTP | ACGIH | OSHA | Mexico |
|-------------|-------------|--------|-----|-------|------|--------|
|-------------|-------------|--------|-----|-------|------|--------|

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Sodium 15523-24-7 Not listed Not listed Not listed Not listed Not listed tetraethylborate

No information available **Mutagenic Effects**

No information available. **Reproductive Effects Developmental Effects** No information available.

Teratogenicity No information available.

STOT - single exposure None known STOT - repeated exposure None known

No information available **Aspiration hazard**

delayed

Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains. Reacts with water so no ecotoxicity data for the substance is available.

Persistence and Degradability Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN3393

Proper Shipping Name ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER-REACTIVE

Proper technical name (SODIUM TETRAETHYLBORATE)

Hazard Class 4.2 4.3 **Subsidiary Hazard Class Packing Group** Ш

TDG

UN-No

Proper Shipping Name ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER-REACTIVE

Hazard Class 4.2 **Subsidiary Hazard Class** 4.3 Ш **Packing Group**

UN-No UN3393

ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER-REACTIVE*, **Proper Shipping Name**

FORBIDDEN FOR IATA TRANSPORT

Hazard Class 4.2 **Subsidiary Hazard Class** 4.3 **Packing Group**

IMDG/IMO

UN-No UN3393

Proper Shipping Name ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER-REACTIVE

Hazard Class 4.2 Subsidiary Hazard Class 4.3 Packing Group 1

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Legend:

X - Listed

- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

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

OSHA 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): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant 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

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Revision Summary 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