

SAFETY DATA SHEET

1. Identification			
Product identifier	SODIUM TETRAPHENYLI	BORON, REAGEN	IT (ACS)
Other means of identification Product code	560		
CAS number	143-66-8		
Synonyms	Sodium tetraphenylborate		
Recommended use	professional, scientific and t	technical activities:	other professional, scientific and technical activities
Recommended restrictions	None known.		
Manufacturer/Importer/Supp	lier/Distributor informatio	on	
Manufacturer			
Company name Address	GFS Chemicals, Inc. P.O. Box 245 Powell, OH 43065 United States		
Telephone	Phone Toll Free Fax	740-881-5501 800-858-9682 740-881-5989	
Website E-mail	www.gfschemicals.com	/ 10 001 5505	
E-mail Emergency phone	service@gfschemicals.com Emergency Assistance	Chemtrec 800-4	24-9300
number	Emergency Assistance		21 3300
2. Hazard(s) identification	on		
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 3
	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irr	itation	Category 2A
	Specific target organ toxicit	y, single exposure	Category 3 respiratory tract irritation
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	Toxic if swallowed. Causes irritation.	skin irritation. Cau	ses serious eye irritation. May cause respiratory
Precautionary statement			
Prevention			nandling. Do not eat, drink or smoke when using this ated area. Wear eye protection/face protection. Wear
Response	SKIN: Wash with plenty of s comfortable for breathing. I contact lenses, if present ar doctor/physician if you feel	soap and water. If if in eyes: Rinse can nd easy to do. Con unwell. If skin irrit	CENTER or doctor/physician. Rinse mouth. IF ON inhaled: Remove person to fresh air and keep autiously with water for several minutes. Remove tinue rinsing. Call a POISON CENTER or ration occurs: Get medical advice/attention. Take off

contaminated clothing and wash before reuse. If eye irritation persists: Get medical

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with

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

applicable laws and regulations, and product characteristics at time of disposal.

advice/attention.

None known.

Storage

Disposal

Hazard(s) not otherwise

classified (HNOC)

3. Composition/information on ingredients

Substances			
Chemical name	Common name and synonyms	CAS number	%
SODIUM TETRAPHENYLBORON	Sodium tetraphenylborate	143-66-8	100
*Designates that a specific chemic	al identity and/or percentage of composition has	been withheld as a trade sec	ret.
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in CENTER or doctor/physician if you feel unwell.	•	athing. Call a POISON
Skin contact	Remove contaminated clothing. Wash with ple medical advice/attention. Wash contaminated	, ,	irritation occurs: Get
Eye contact	Do not rub eyes. Immediately flush eyes with contact lenses, if present and easy to do. Cont develops and persists.	. ,	
Ingestion	Call a physician or poison control center imme	•	-

 tion
 Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

 immortant
 Severe eve irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Most importantSevere eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.symptoms/effects, acute and
delayedDusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain.

Indication of immediate
medical attention and special
treatment neededProvide general supportive measures and treat symptomatically. Keep victim warm. Keep victim
under observation. Symptoms may be delayed.

General information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. This product is miscible in water. Stop the flow of material, if this is without risk.
	Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions	Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not taste or swallow. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.	
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).	
8. Exposure controls/personal protection		
Occupational exposure limits	This substance has no PEL, TLV, or other recommended exposure limit.	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust	

Individual protection measures, such as personal protective equipment

Eye/face protection	Face shield is recommended. Wear safety glasses with side shields (or goggles). Eye wash fountains are required.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing.
Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Dust & vapor respirator.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Powder.
Color	White.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	572 °F (300 °C) estimated
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or ex	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.

Relative density	Not available.
Solubility(ies)	
Solubility (water)	50 g/l at 20 °C
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Molecular formula	C24H20B.Na
Molecular weight	342.22 g/mol
Oxidizing properties	Not oxidizing.
pH in aqueous solution	8 (5% solution) estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials. Exposure to light.
Incompatible materials	Oxidizing material.
Hazardous decomposition products	Upon decomposition, this product emits carbon monoxide, carbon dioxide, and boron oxides.

11. Toxicological information

Information on likely routes of exposure

Skin contactCauses skin irritation.Eye contactCauses serious eye irritation.IngestionToxic if swallowed.Symptoms related to the physical, characteristicsSevere eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain.Information on toxicological characteristicsToxic if swallowed.Skin corrosion/irritationCauses skin irritation.Serious eye damage/eye irritationToxic if swallowed.Respiratory or skin sensitization skin sensitizationNot arespiratory sensitization.Respiratory or skin sensitizationNot arespiratory sensitizationNot arespiratory or skin sensitizationNot arespiratory sensitization.Skin sensitizationNot arespiratory sensitization.Skin sensitizationNot arespiratory sensitization.Not isted.OSCHA Specifically Regulated.VIS. National Toxicology and the dust in out expected to cause skin sensitization.Not isted.Substances (29 CFR 1910.1001-1050)Not isted.May cause respiratory irritation.Specific target organ toxicityMay cause respiratory irritation.Specific target organ toxicityNot assified.Specific target organ toxicity <t< th=""><th>Inhalation</th><th>Dust may irritate respiratory system.</th></t<>	Inhalation	Dust may irritate respiratory system.
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 single exposure Specific target organ toxicity Not classified. repeated exposure 	Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
- repeated exposure		May cause respiratory irritation.
Aspiration hazard Not an aspiration hazard.		Not classified.
	Aspiration hazard	Not an aspiration hazard.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
Persistence and degradability		
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

	UN number	UN2811
	UN proper shipping name	Toxic solids, organic, n.o.s. (SODIUM TETRAPHENYL BORON)
	Transport hazard class(es)	
	Class	6.1(PGIII)
	Subsidiary risk	-
	Label(s)	6.1
	Packing group	III
	Special precautions for	Read safety instructions, SDS and emergency procedures before handling.
	user	
	Special provisions	IB8, IP3, T1, TP33
	Packaging exceptions	153
	Packaging non bulk	213
	Packaging bulk	240
IAT	A	
	UN number	UN2811
	UN proper shipping name	Toxic solid, organic, n.o.s. (SODIUM TETRAPHENYL BORON)
	Transport hazard class(es)	
	Class	6.1(PGIII)
	Subsidiary risk	-
	Packing group	III
	Environmental hazards	No.
	ERG Code	6L
	Special precautions for	Read safety instructions, SDS and emergency procedures before handling.
	user	
	Other information	
	Passenger and cargo aircraft	Allowed with restrictions.
	Cargo aircraft only	Allowed with restrictions.
IMI	DG	
	UN number	UN2811
	UN proper shipping name	TOXIC SOLID, ORGANIC, N.O.S. (SODIUM TETRAPHENYL BORON)
	Transport hazard class(es)	
	Class	6.1(PGIII)
	Subsidiary risk	-
	Packing group	III
	Environmental hazards	
	Marine pollutant	No.
	EmS	F-A, S-A

Special precautions for Read safety instructions, SDS and emergency procedures before handling.

user Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

DOT



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. **CERCLA Hazardous Substance List (40 CFR 302.4)** Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. Superfund Amendments and Reauthorization Act of 1986 (SARA) **Hazard categories** Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Yes **Hazardous chemical**

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

 Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

 Not regulated.

 Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

 Not regulated.

 Safe Drinking Water Act

 (SDWA)

 US state regulations

 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date Revision date Version #	March-27-2013 June-09-2017 02
Disclaimer	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. GFS Chemicals, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.