

Revision number: 1 Revision date: 11/12/2013

1. IDENTIFICATION

Product name: Product code: 9-Anthraceneboronic Acid (contains varying amounts of Anhydride) A2328

TCI AMERICA

SAFETY DATA SHEET

Product use: Restrictions on use:

Company:

TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales@tciamerica.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Signal word:

Warning!

None

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

> [Storage] [Disposal]

Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. None

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For laboratory research purposes. Not for drug or household use.

Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security +1- 503-286-7624

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: CAS Number: Molecular Weight: Chemical Formula: Substance 9-Anthraceneboronic Acid (contains varying amounts of Anhydride) >98.0%(LC) 100622-34-2 222.05 C₁₄H₁₁BO₂

amounts of Anhydride) 4. FIRST-AID MEASURES			
Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim		
Skin contact:	is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. If skin irritation occurs get medical advice/attention. Remove and wash contaminated clothing before re- use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes.		
Eye contact:	Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and		
Ingestion:	remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects o exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Do not induce vomiting with out medical advice. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial		
	respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.		
Symptoms/effects:			
Acute: Delayed:	Redness. No data available		
mmediate medical attention:	If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.		
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, CO_2 , sand, earth, water spray or regular foam Consult with local fire authorities before attempting large scale fire fighting operations.		
Specific hazards arising from the cher			
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Borates Closed containers may explode from heat of a fire.		
Special precautions for fire-fighters: Use water spray or fog; do not use straig heated. Move containers from fire area if Special protective equipment for fire-f			
Wear positive pressure self-contained broken	eathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may		
6. ACCIDENTAL RELEASE MEAS	URES		
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.		
Personal protective equipment:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).		
Emergency procedures:	Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.		

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Environmental precautions: Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined

areas; dike if needed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No data available

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment

Respiratory protection: Hand protection: Eye protection: Skin and body protection: Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Nitrile gloves. Safety glasses. Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid			
Form:	Crystal - Powder			
Color:	Slightly pale yellow - Yellow green			
Odor:	No data available			
Odor threshold:	No data available			
Melting point/freezing point:	217°C (423°F)	pH:		No data available
Boiling point/range:	No data available	Vapor pressure:		No data available
Decomposition temperature:	No data available	Vapor density:		No data available
Relative density:	No data available	Dynamic Viscosity:		No data available
Kinematic viscosity:	No data available			
Partition coefficient:	3.86	Evaporation rate:		No data available
n-octanol/water (log Pow)		(Butyl Acetate = 1)		
Flash point:	No data available	Autoignition temper	rature:	No data available
Flammability (solid, gas):	No data available	Flammability or exp	losive limits:	
		Lower:	No data availa	able
		Upper:	No data availa	able

Solubility(ies):

Soluble: Methanol

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

RTECS Number: No data available

amounts of An Acute Toxicity: No data availab Skin corrosion No data availab	le /irritation: le	ring TCI A	MERICA		Page 4 of 5
Serious eye da No data availab	mage/irritation: le				
Respiratory or No data availab	skin sensitization: le				
Germ cell muta No data availab					
Carcinogenicit	y:				
No data availab	le				
IARC:	lo data available	NTP:	No data available	OSHA:	No data available
Reproductive t No data availab					
Skin contact ma or dry skin. Eye Potential Healt	ted to exposure: y result in inflammation; cha contact may result in redne	aracterized by itchi ss or pain.	contact, Ingestion, Skin cong, scaling, reddening, or		contact may result in redness, pain
Target organ(s	•	No data availab	e		
12. ECOLOG	ICAL INFORMATION				
Ecotoxicity					
Fish:		No data availab			
Crustac Algae:	ea:	No data availab No data availab	-		
Aigue.			0		
Persistence an	d degradability:	No data availab	e		
	ve potential (BCF):	No data availab			
Mobillity in soi		No data availab	e		
Partition coeffi		3.86			
n-octanol/wate		No data availab	•		
Soil adsorption Henry's Law:		No data availab			
constant (PaM	³ /mol)		•		
13. DISPOSA	L CONSIDERATIONS				
Disposal of pro	oduct:				mply with Federal, State and Local
Disposal of co Other consider		chemical inciner assistance but of regulatory comp Waste are listed water ways, or t Dispose of as u	ator equipped with an aft loes not replace these law liance according to the la in 40 CFR Parts 261. Th ne soil. nused product. Do not re-	erburner and scrubber syster vs, nor does compliance in a w. US EPA guidelines for Ide e product should not be allow	h a combustible solvent and burn in a m. This section is intended to provide ccordance with this section ensure entification and Listing of Hazardous wed to enter the environment, drains, substance.
14 TDANOD			-		
14. 1KANSPO	ORT INFORMATION				
DOT (US)					

ΙΑΤΑ

IMDG

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

HMIS Classification:

2 0 0

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313:	Not Listed
SARA 302:	Not Listed

State Regulations

SAR

State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

Other Information

NFPA Rating	:
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Health:	2	Health:
Flammability:	0	Flammability:
Instability:	0	Physical:

International Inventories

WHMIS hazard class: D2B: Materials causing other toxic effects. (Toxic) Notice Through Official Gazettes Reference Number: (Japan) ENCS: Not Listed

16. OTHER INFORMATION

Revision date: 11/12/2013

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.