

Printed: 03/04/2019 Revision: 04/20/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Company Name:	BIONIX DAZ20Isomeric Industries Inc.3400 Research Forest Drive, Suite B4(678)713-4275The Woodlands, TX 77381		
Web site address: Email address: Emergency Contact:	www.isomericindustries.com info@isomericindustries.com INFOTRAC United States & Canada	(800)535-5053	
Hazard Rating System: HMIS:	HEALTH 2 FLAMMABILITY 0 PHYSICAL 0 PPE B	Instability 0 Special Hazard	

2. HAZARDS IDENTIFICATION

Skin Sensitization, Category 1 Serious Eye Damage/Eye Irritation, Category 1 Skin Corrosion/Irritation, Category 3 Acute Toxicity: Inhalation, Category 4 Acute Toxicity: Oral, Category 4 Specific Target Organ Toxicity (single exposure), Category 3



GHS Signal Word:	Danger
GHS Hazard Phrases:	H302 - Harmful if swallowed.
	H316 - Causes mild skin irritation.
	H317 - May cause an allergic skin reaction.
	H318 - Causes serious eye damage.
	H332 - Harmful if inhaled.
	H335 - May cause respiratory irritation.
GHS Precautionary Phrases:	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264 - Wash hands thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases:	P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P302+352 - IF ON SKIN: Wash with plenty of soap and water.
	P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
	P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P310 - Immediately call a POISON CENTER or doctor/physician.



CAS #

533-74-4

	P321 - Specific treatment see on this label.
	P330 - Rinse mouth.
	P332+313 - If skin irritation occurs, get medical advice/attention.
	P333+313 - If skin irritation or rash occurs, seek medical advice/attention.
	P363 - Wash contaminated clothing before reuse.
GHS Storage and Disposal	P403+233 - Store container tightly closed in well-ventilated place.
Phrases:	P405 - Store locked up.
	P501 - Dispose of contents/container to
Potential Health Effects (Acute and Chronic):	Harmful if swallowed. Causes serious eye irritation. Causes skin irritation. Harmful if inhaled.

3. COMPOSITION/INFORMATION ON INGREDIENTS			
Hazardous Components (Chemical Name)	Concentration		
Dazomet	>20.0 %		

	4. FIRST AID MEASURES
Emergency and First Aid Procedures:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
In Case of Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In Case of Skin Contact:	Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
In Case of Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Signs and Symptoms Of Exposure:	The most important known symptoms and effects are described in the labelling (see section 2 .2) and/or in section 11
Indication of any immediate medical attention and specia treatment needed:	No data available. I

	5. FIRE FIGHTING	B MEASURES
Flash Pt:	> 212.00 F (100.0 C)	
Explosive Limits:	LEL:	UEL:
Autoignition Pt:		
Suitable Extinguishing Media	a:Dry chemical or CO2.	
Unsuitable Extinguishing	DO NOT USE WATER OR FOA	М.
Media:		
Fire Fighting Instructions:	Wear self contained breathing a	pparatus for fire fighting if necessary.
Flammable Properties and Hazards:	Carbon oxides, nitrogen oxides	(NOx).
Hazardous Combustion	The material will not burn until w	ater has evaporated. Burning may produce irritant
Products:	fumes.	



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6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Steps To Be Taken In Case Material Is Released Or Spilled:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions To Be Taken in	Avoid inhalation of vapor or mist. Keep away from heat, sparks and flame. Wash
Handling:	thoroughly after handling. Avoid contact with eyes, skin, and clothing.
Precautions To Be Taken in	Do not freeze. Keep container tightly closed in a dry and well-ventilated place.

Precautions To Be Taken in Storing:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
533-74-4	Dazomet			

Personal Protective Equipment Symbols:



Respiratory Equipment (Specify Type):	NIOSH/MSHA approved respirator.
Eye Protection:	Safety glasses with side-shields conforming to EN166.
Protective Gloves:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Other Protective Clothing:	Complete suit protecting against chemicals.
Engineering Controls (Ventilation etc.):	Use with adequate ventilation.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice.
Environmental Exposure Controls:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.



9.	PHYSICAL AN	D CHEMICAL	PROPERTIES	•
Physical States:	[]Gas [X]Liqu	id [] Solid		
Appearance and Odor:	White.			
	pungent odor.			
pH:	8.2			
Melting Point:	NA			
Boiling Point:	> 212.00 F (100.0 C)			
Flash Pt:	> 212.00 F (100.0 C)			
Evaporation Rate:				
Flammability (solid, gas):				
Explosive Limits:	LEL:	UEL:		
Vapor Pressure (vs. Air or				
mm Hg):				
Vapor Density (vs. Air = 1):				
Specific Gravity (Water = 1):	1.06 at 25.0 C	(77.0 F)		
Solubility in Water:				
Octanol/Water Partition				
Coefficient:				
Autoignition Pt:				
Decomposition Temperature	:			
Viscosity:				
	10. STABILI	TY AND REA		
De electro de c	Ne dete evelleble			

Reactivity:	No data available.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Avoid extreme temperatures. Do not freeze.
Incompatibility - Materials To Avoid:	Strong bases, Strong oxidizing agents, Strong acids.
Hazardous Decomposition o Byproducts:	r No data available. In the event of fire: see section 5.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.



	11. TOXICOLOGICAL INFORMATION
Toxicological Information:	Acute toxicity.
	Nutritional and Gross Metabolic:Changes in:Body temperature decrease. Germ cell mutagenicity: No data available. Reproductive toxicity. Aspiration hazard: CAS# 533-74-4: Dazomet: Acute toxicity, LD50, Oral, Rat, 320.0 MG/KG. Result: Behavioral: Convulsions or effect on seizure threshold. Nutritional and Gross Metabolic:Changes in:Body temperature decrease. ; Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 9,521, 1966
	Acute toxicity, LC50, Inhalation, Rat, 8400. MG/M3, 4 H. Result: Cardiac:Arrythmias (including changes in conduction). Vascular: BP lowering not charactertized in autonomic section. Kidney, Ureter, Bladder:Hematuria. ; Pesticide Manual., The British Crop Protection Council, 20 Bridport Rd., Thornton Heath CR4 7QG UK, Vol/p/yr: 9,225, 1991
	Acute toxicity, LD50, Skin, Rat, 2260. MG/KG. Result: Behavioral: Somnolence (general depressed activity). Behavioral: Muscle weakness. Lungs, Thorax, or Respiration:Dyspnea. ; Nippon Noyaku Gakkaishi. Journal of the Pesticide Science Society of Japan., Nippon Noyaku Gakkai, 1-43-11, Komagome, Toshima-ku, Tokyo 170 Japan, Vol/p/yr: 17,S327, 1992
	Acute toxicity, LD50, Oral, Mouse, 180.0 MG/KG. Result: Behavioral: Convulsions or effect on seizure threshold. ; Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 9,521, 1966
	Acute toxicity, LD50, Skin, Mouse, 2400. MG/KG. Result: Behavioral: Somnolence (general depressed activity). Behavioral: Muscle weakness. Lungs, Thorax, or Respiration:Dyspnea. ; Nippon Noyaku Gakkaishi. Journal of the Pesticide Science Society of Japan., Nippon Noyaku Gakkai, 1-43-11, Komagome, Toshima-ku, Tokyo 170 Japan, Vol/p/yr: 17,S327, 1992
	Standard Draize Test, Eyes, Species: Rabbit, 500.0 MG, 24 H. Result: Behavioral: Headache. Lungs, Thorax, or Respiration:Other changes. ; Prehled Prumyslove Toxikologie, Marhold, J., Organicke Latky, Prague Czechoslovakia, Vol/p/yr: -,1103, 1986
Irritation or Corrosion:	Skin corrosion/irritation. Serious eye damage/eye irritation: Eyes. Rabbit. Result:
Sensitization:	No data available.
Chronic Toxicological Effects:	Specific target organ toxicity - single exposure: No data available. Specific target organ toxicity -repeated exposure: no data available.
Carcinogenicity/Other Information:	 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No



12. ECOLOGICAL INFORMATION						
General Ecologi Information:		 This product is extremely toxic to fish and other aquatic organisms. CAS# 533-74-4: Dazomet: LC50, Bluegill (Lepomis macrochirus), 32.00 AI MG/L, 24 H, Mortality, Water temperature: 21.00 C (69.8 F) C, pH: 7.40, Hardness: 35.00 MG/L. Result: No observed effect. ; Initial Submission: Acute Toxicity Study with Tetrahydro-3,5-Dimethyl-2H-1,3,5-Thiadiazine-2-Thione in Bluegill and Rainbow Trout with Cover Letter Dated 042392, Monsanto Co., 1992 LC50, Rainbow Trout (Oncorhynchus mykiss), 24.00 - 32.00 AI MG/L, 24 H, Mortality, Water temperature: 12.00 C (53.6 F) C, pH: 7.40, Hardness: 35.00 MG/L. Result: No observed effect. ; Initial Submission: Acute Toxicity Study with Tetrahydro-3,5-Dimethyl-2H-1,3,5-Thiadiazine-2-Thione in Bluegill and Rainbow Trout with Cover Letter Dated 042392, Monsanto Co., 1992 LC50, Water Flea (Daphnia magna), 0.880 AI MG/L, 24 H, Mortality, Water temperature: 21.00 C (69.8 F) C, pH: 7.10, Hardness: 35.00 MG/L. Result: No observed effect. ; Initial Submission: Acute Toxicity Study with Tetrahydro-3,5-Dimethyl-2H-1,3,5-Thiadiazine-2-Thione in Bluegill and Rainbow Trout with Cover Letter Dated 042392, Monsanto Co., 1992 LC50, Water Flea (Daphnia magna), 0.880 AI MG/L, 24 H, Mortality, Water temperature: 21.00 C (69.8 F) C, pH: 7.10, Hardness: 35.00 MG/L. Result: No observed effect. ; Initial Submission: Acute Toxicity Study with Tetrahydro-3,5-Dimethyl-2H-1,3,5-Thiadiazine-2-Thione in Daphnia magna with Cover Letter Dated 042392, Monsanto Co., 1992 				
Results of PBT a assessment:	and vPvB	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.				
Persistence and Degradability:	I	No data available.				
Bioaccumulative	e Potential:	No data available.				
Mobility in Soil:		No data available.				
		13. DISPOSAL CO	ONSIDERATI	ONS		
Waste Disposal	Method:	Product: Contact a licensed profession Dispose in accordance with le	•		of this material.	
		14. TRANSPORT	INFORMAT	ON		
LAND TRANSPO DOT Proper DOT Hazard UN/NA Num	Shipping Na Class:	F): me: Not Regulated.				
	•	•				
ICAO/IATA S	Shipping Nan	-				
		15. REGULATOR		ION		
EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists						
		nponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
533-74-4 D	azomet		No	No	Yes	

040 #	Thazardous Components (Onernical Name)	0.002 (EII0)	0.004 1.4	0.010 (114)
533-74-4	Dazomet	No	No	Yes
CAS #	Hazardous Components (Chemical Name)	Other US EPA or S	State Lists	
533-74-4	Dazomet	Inventory; FIFRA: CSA: No; CA PRC	o; CWA NPDES: No; Yes - Active - 035602 DP.65: No; MA Oil/Ha EHS: Yes - 3664; PA	2: Am/CC; FDA/DEA azMat: No; MI CMR,



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CAS # Hazardous Components (Chemical Name)		International Regulatory Lists		
533-74-4	Dazomet	Canadian DSL: Yes; Canadian NDSL: No		
16. OTHER INFORMATION				
Revision Date	e: 04/20/2017			

This Product:

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