

# Safety Data Sheet Version 3.10 Revised: 2016-05-02

# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier Product Name	PIPES
<u>Other means of identification</u> Product Code(s) Synonyms	A4212 No information available
Product Use	For Laboratory Research Use Only.
Supplier/Manufacturer Biomatik Corporation 9-140 McGovern Dr. Cambridge, Ontario N3H 4R7 Canada	
Telephone Number E-mail Address	1-519-489-7195 info@biomatik.com
Emergency Telephone Number	Chemtrec 1-800-424-9300
	2. HAZARDS IDENTIFICATION

#### **Classification**

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

#### Label elements

Emergency Overview			
Appearance White	Physical State Free-flowing Crystalline	<b>Odor</b> No information available	
	Powder		
•			

# Hazards not otherwise classified (HNOC) Not regulated Other Information Unknown Acute Toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
1,4-Piperazinediethanesu Ifonic acid	5625-37-6	227-057-6	95-100	Not applicable

# 4. FIRST AID MEASURES

#### First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If not breathing, give artificial respiration.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth.
Most important symptoms and effect	cts, both acute and delayed
Most Important Symptoms/Effects	No information available.
Indication of any immediate mediae	lattention and analial tractment needed

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

# Specific Hazards Arising from the Chemical

No information available.

Hazardous Combustion	Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.
Products	

Explosion Data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

## 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.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures			
Personal protection	Ensure adequate ventilation, especially in confined areas.		
Environmental Precautions			
Environmental Precautions	See Section 12 for additional Ecological information.		
Methods and material for containment and cleaning up			
Methods for Containment	Prevent further leakage or spillage if safe to do so.		
Methods for Cleaning Up	Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.		

# 7. HANDLING AND STORAGE

Precautions for Safe Handling					
Handling	Handle in accordance with good	Handle in accordance with good industrial hygiene and safety practice.			
Conditions for safe storage, incl	uding any incompatibilities				
Storage	Keep containers tightly closed in	Keep containers tightly closed in a dry, cool and well-ventilated place.			
Incompatible Products	None known based on informatio	n supplied.			
8.	EXPOSURE CONTROLS/PER	SONAL PROTECTION			
<b>Control parameters</b>					
Exposure Guidelines	This product does not contain an established by the region specific		cupational exposure limits		
Chemical Name		OSHA PEL	NIOSH IDLH		
1,4-Piperazinediethanesulfonicacid	-	-	-		
Appropriate engineering control	<u>S</u>				
Engineering Measures	Showers Eyewash stations Ventilation systems.				
Individual protection measures,	such as personal protective equipm	ient			
Eye/Face Protection	Safety glasses with side-shields.				
Skin and Body Protection	Wear protective gloves/clothing.				
<b>Respiratory Protection</b> If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.					
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.				
	9. PHYSICAL AND CHEMIC	AL PROPERTIES			
Information on basic physical ar	d chemical properties				
Physical State	Free-flowing Crystalline Powder				
Appearance	White	Odor	No information available		
Color	No information available	Odor Threshold	No information available		
Property pH Melting point/freezing point Boiling Point/Range Flash Point (High in °C) Evaporation Rate Flammability (solid, gas)	Values No information available 300 °C No information available No information available No information available No information available	<u>Remarks • Method</u>			
Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents	No information available No information available No information available No information available No information available No information available No information available				

Partition coefficient Autoignition Temperature Decomposition Temperature Kinematic viscosity Dynamic viscosity Explosive Properties Oxidizing Properties

#### **Other Information**

Softening Point Molecular Weight VOC Content Density Bulk Density No information available No information available

No information available No information available No information available No information available No information available

# **10. STABILITY AND REACTIVITY**

Reactivity No data available

<u>Chemical Stability</u> Stable under recommended storage conditions. <u>Possibility of Hazardous Reactions</u> None under normal processing. <u>Conditions to Avoid</u> Extremes of temperature and direct sunlight. <u>Incompatible Materials</u> None known based on information supplied. <u>Hazardous Decomposition Products</u> Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.

# **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

#### **Product Information**

Ob and a difference		
Ingestion	There is no data available for this product.	
Skin Contact	There is no data available for this product.	
Eye Contact	There is no data available for this product.	
Inhalation	There is no data available for this product.	

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,4-Piperazinediethanesulfonic acid	-	-	-

#### Information on toxicological effects

Symptoms

No information available.

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

Sensitization Mutagenic Effects Carcinogenicity	No information available. No information available. No information available.			
Chemical Name	ACGIH	IARC	NTP	OSHA
1,4-Piperazinediethanesulfo	-	-	-	-
nic acid				

#### Reproductive Toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard

No information available. No information available. No information available. No information available.

## Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 

100 % of the mixture consists of ingredient(s) of unknown toxicity

# **12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
1,4-Piperazinediethanesulfonic acid	-	-	-

## Persistence and Degradability

No information available.

# **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
1,4-Piperazinediethanesulfonic acid	-

**Other Adverse Effects** 

No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging

Do not re-use empty containers.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
1,4-Piperazinediethanesulfo nic acid	-	-	-	-

California Hazardous Waste Status
-

# 14. TRANSPORT INFORMATION

DOT

Not regulated

<u>IATA</u>

Not regulated

# **15. REGULATORY INFORMATION**

International Inventories TSCA

Complies

DSL/NDSL EINECS/ELINCS	Complies Complies	
ENCS	Does not Comply	
IECSC	Complies	
KECL	Does not Comply	
PICCS	Does not Comply	
AICS	Complies	

#### Legend

 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

 EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

 ENCS - Japan Existing and New Chemical Substances

 IECSC - China Inventory of Existing Chemical Substances

 KECL - Korean Existing and Evaluated Chemical Substances

 PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### U.S. Federal Regulations

#### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %	
1,4-Piperazinediethanesulfonicacid	-	

#### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

# Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
1,4-Piperazinediethanesulfo nic acid	-	-	-	-

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
1,4-Piperazinediethanesulfonic acid	-	-	-

# U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name		California Prop. 65	
1,4-Piperazinediethane	sulfonic acid	onic acid -	
U.S. State Right-to-Know Regulations			
Chemical Name	New Jersev	Massachusetts	Pennsvlvania

1,4-Piperazinediethanesulfonicacid	-	-	-

# U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated

# **16. OTHER INFORMATION**

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet