

# Safety Data Sheet Version 1.10 Revised: 2018-01-25

## **1. PRODUCT AND COMPANY IDENTIFICATION**

<u>Product Identifier</u> Product Name	TRIGent
Other means of identification Product Code(s) Synonyms	K5161 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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Vapors	Category 3
Skin corrosion/irritation	Category 1 B
Serious eye damage/eye irritation	Category 1
Specific target organ systemic toxicity (single exposure)	Category 3
Specific target organ systemic toxicity (repeated exposure)	Category 2
Mutagenicity	Mutagenic category 2

#### Label elements



**Emergency Overview** 

## **Hazard Statements**

- H301 Toxic if swallowed
- H311 Toxic in contact with skin
- H331 Toxic if inhaled
- H314 Causes severe skin burns and eye damage
- H335 May cause respiratory irritation
- H341 Suspected of causing genetic defects

H373 - May cause damage to organs through prolonged or repeated exposure H412 - Harmful to aquatic life with long lasting effects

Odor No data available

**Appearance Liquid** 

**Physical State Liquid** 

## **Precautionary Statements**

## Prevention

P201 - Obtain special instructions before use

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P273 - Avoid release to the environment

## Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

## Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

## Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Chronic aquatic toxicity

Category 3

## Other Information

HMIS

Health	4 * Chronic Hazard
Flammability	0
Reactivity	0

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %
Water	7732-18-5	231-791-2	30-50
Phenol	108-95-2	203-632-7	25-35
Guanidine thiocyanate	593-84-0	209-812-1	10-25

Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product. We recommend handling all chemicals with caution.

## 4. FIRST AID MEASURES

## First Aid Measures

Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Skin Contact	Rinse with plenty of water . Immediate medical attention is not required.
Inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

#### Most important symptoms and effects, both acute and delayed

H301 - Toxic if swallowed H311 - Toxic in contact with skin H331 - Toxic if inhaled H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation H341 - Suspected of causing genetic defects H373 - May cause damage to organs through prolonged or repeated exposure H412 - Harmful to aquatic life with long lasting effects

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Suitable extinguishing media Unsuitable Extinguishing Media	Water spray. Carbon dioxide (CO2). Foam. Dry chemical. No information available.
Specific Hazards Arising from the Chemical	Not known.
Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	Not known. Not known.
Brotostive Equipment and Brocoutions for Eirofic	abtoro.

#### <u>Protective Equipment and Precautions for Firefighters</u> Standard procedure for chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.

## **Environmental Precautions**

Not known.

## Methods and material for containment and cleaning up

Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

## Precautions for Safe Handling

Use personal protective equipment as required. No special handling advices are necessary.

Not known.

## Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible Products

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

## Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phenol	5 ppm	5 ppm 19 mg/m <sup>3</sup>	-
Guanidine thiocyanate	None	None	-

## Appropriate engineering controls

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

Eye/Face Protection	Tight sealing safety goggles.
Skin and Body Protection	Wear suitable protective clothing.
Respiratory Protection	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Appearance	Liquid
Odor	No data available
Melting point / melting range	°C Mixture has not been tested
Boiling point / boiling range	°C Mixture has not been tested
Flash point	°C Mixture has not been tested
Autoignition Temperature	°C Mixture has not been tested
Decomposition temperature	°C Mixture has not been tested
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	Mixture has not been tested
Lower explosion limit	Mixture has not been tested
Vapor Pressure	Mixture has not been tested
Relative density	Mixture has not been tested
Specific gravity	No data available
Solubility	No data available
Partition coefficient	No data available
n-octanol/water	

Explosive properties

Mixture has not been tested

Other Information No data available

	10. STABILITY AND REACTIVITY	
Reactivity	None known.	
Chemical Stability	Stable under normal conditions.	
Possibility of Hazardous Reactions	Hazardous reaction has not been reported.	
Conditions to Avoid	Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product.	
Incompatible Materials	No dangerous reaction known under conditions of normal use.	
Hazardous Decomposition Products	No data available.	

## **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

#### **Product Information**

Irritation Corrosivity Skin irritation, Serious Eye Damage / Eye Irritation. Causes severe skin burns and eye damage.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenol	= 340 mg/kg (Rat) = 317 mg/kg (Rat)	No data available	=316 mg/m <sup>3</sup> (Rat)
Guanidine thiocyanate	764 mg/kg	2000 mg/kg	5.319 mg/L (4H)

## Information on toxicological effects

Symptoms No data available.

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

Sensitization	Conclusive but not sufficient for classification.
Mutagenicity	Product is or contains a chemical which may cause mutations in the germ cells of
Carcinogenicity	humans. Conclusive but not sufficient for classification.

Chemical Name	ACGIH	IARC	NTP	OSHA
Phenol	-	-	-	-
Guanidine thiocyanate	-	-	-	-

#### Reproductive toxicity STOT - Single Exposure STOT - Repeated Exposure Aspiration hazard

Conclusive but not sufficient for classification. May cause respiratory irritation. Conclusive but not sufficient for classification. Conclusive but not sufficient for classification.

## Numerical measures of toxicity - Product Information

No data available.

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Phenol	Desmodesmus subspicatus EC50 187 - 279 mg/L (72 h) Pseudokirchneriella subcapitata EC50 46.42 mg/L (96 h)	Daphnia magna EC50 4.24 - 10.7 mg/L (48 h) Daphnia magna EC50 10.2 - 15.5 mg/L (48 h)	No data available	No data available	logPow1.5
Guanidine thiocyanate	No data available	No data available	No data available	No data available	No data available

#### Persistence and Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
Phenol	-
Guanidine thiocyanate	-

**Other Adverse Effects** 

No information available.

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	<b>RCRA - D Series Wastes</b>	RCRA - U Series Wastes
Phenol	-	-	-	-
Guanidine thiocyanate	-	-	-	-

Chemical Name	RCRA - Halogenated Organic Compounds		RCRA - F Series Wastes	RCRA - K Series Wastes	
Phenol	-	-	-	-	
Guanidine thiocyanate	-	-	-	-	
Che	Chemical Name		California Hazardous Waste Status		
Phenol			-		

## Guanidine thiocyanate

## 14. TRANSPORT INFORMATION

#### IATA / ADR / DOT-US / IMDG

Classified as dangerous in the meaning of transport regulations.

UN number	1760
UN proper shipping name	Corrosive liquid, n.o.s. (phenol - guanidine thiocyanate solution)
Transport hazard class(es)	8
Packing group	II
Environmental hazards	yes
Special precautions for user	Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code N

Not Applicable.

## **15. REGULATORY INFORMATION**

## International Inventories

	Phenol	Guanidine thiocyanate
TSCA	Listed	Listed
DSL/NDSL	Listed	Not listed
EINECS/ELINCS	Listed	Listed
ENCS	Listed	Listed
IECSC	Listed	Listed
KECL	Listed	Not listed
PICCS	Listed	Listed
AICS	Listed	Listed

#### 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

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 contains the following

IECSC - China Inventory of Existing Chemical Substances

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 %	
Phenol	1.0	

## U.S. State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### WHMIS Hazard Class

D1A - Very toxic materials E - Corrosive material



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## **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**