

A Geno Technology, Inc. (USA) brand name

# **Safety Data Sheet**

Cat. # 786-254

Glycoprotein Staining Kit

Size: 10 Mini Gels



### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 07/09/2013 Revision date: 09/20/2017 Version: 7.1

### **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Product name : RAPIDStain™

Product code : 007R

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Geno Technology, Inc./ G-Biosciences 9800 Page Avenue Saint Louis, 63132-1429 - United States T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.com

#### 1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Flammable liquids Category 4 H227 Combustible liquid

Full text of H statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Signal word (GHS US) : Warning

Hazard statements (GHS US) : H227 - Combustible liquid

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

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

P370+P378 - In case of fire: Use media other than water to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
phosphoric acid, conc=85% (Note B)	orthophosphoric acid, conc=85% / phosphoric syrup, conc=85% / phosphoric-acid-	(CAS-No.) 7664-38-2	10 - 50	Skin Corr. 1B, H314

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
methanol	420A reagent #5 / acetone alcohol / Al3-00409 / alcohol C1 / alcohol, methyl / carbinol / caswell No 552 / coat-B1400 / colonial spirit / colonial spirits / perseta products criosine disinfectant / eureka products, criosine / freers elm arrester / green wood spirits / holzin / HYDRANAL-standard-methanol / ideal concentrated wood preservative / manhattan spirits / methanol / methylalcohol / methyl alcohol / methyl hydrate / methyl hydroxide / Methylalcohol / methylen / methylol / monohydroxymethane / pyroligneous spirit / pyroxylic spirit / RCRA waste number U154 / standard wood spirits / surflo-B17 / wilbur-ellis smut-guard / wood alcohol / wood naphtha / wood spirit / X-cide 402 industrial bactericide	(CAS-No.) 67-56-1	0.5 - 2	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:vapour), H331 STOT SE 1, H370
Coommassie Brilliant Blue G 250 Dye	acid blue 90 / benzenemethanaminium, N[4-[(4-ethoxyphenyl)amino]phenyl][4-(ethyl[(3-sulfophenyl)methyl]amino]-2-methylphenyl]methylene]-3-methyl-2,5-cyclohexadien-1-ylidene]-N-ethyl-3-sulfo-, hydroxide, inner salt, monosodium salt / brillant blue G / brillant blue G 250 / C.I. 42655 / C.I. No. 42655 / C 1 42655 / coomassie brillant blue G / coomassie brillant blue grand G 250	(CAS-No.) 6104-58-1	< 0.05	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Full text of hazard classes and H-statements: see section 16

### **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Container may slop over if solid jet (water/foam) is applied. No dry chemical powder. Solid

water jet ineffective as extinguishing medium.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

Explosion hazard : No data available on direct explosion hazard. No data available on indirect explosion hazard.

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### 5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Exposure to fire/heat: consider evacuation. Exposure to fire/heat: keep upwind. Exposure to fire/heat: heat a said heat

fire/heat: have neighbourhood close doors and windows. Exposure to fire/heat: seal off low-

lying areas.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Protective equipment : See "Material-Handling" to select protective clothing. Gloves. Protective clothing. Gas-tight suit.

Dust cloud production: dust-tight suit. Face-shield. Dust cloud production: compressed

air/oxygen apparatus.

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Keep away

from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Storage temperature : 4 °C

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

# RAPIDStain™

No additional information available

### phosphoric acid, conc=85% (7664-38-2)

No additional information available

#### methanol (67-56-1)

### **USA - ACGIH - Occupational Exposure Limits**

 ACGIH TWA (ppm)
 200 ppm

 ACGIH STEL (ppm)
 250 ppm

#### Coommassie Brilliant Blue G 250 Dye (6104-58-1)

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

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### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Blue
Odor : None

Odor threshold : No data available pH : No data available Melting point : Not applicable Freezing point : No data available Boiling point : No data available : No data available

Flash point : 80 °C

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available Solubility : No data available Log Pow No data available : No data available Auto-ignition temperature : No data available Decomposition temperature Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosion limits** No data available Explosive properties : No data available Oxidizing properties : No data available

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

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### **Hazardous decomposition products**

Hazardous decomposition products.

### **SECTION 11: Toxicological information**

### Information on toxicological effects

: Not classified Acute toxicity (oral) Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

methanol (67-56-1)	
LD50 oral rat	1187 - 2769 mg/kg body weight (BASF test, Rat, Male / female, Weight of evidence, Aqueous solution, Oral, 7 day(s))
LD50 dermal rabbit	17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LC50 inhalation rat (mg/l)	128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	17100 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h

Skin corrosion/irritation : Not classified : Not classified Serious eye damage/irritation Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity - single exposure : Not classified

methanol (67-56-1)	
Specific target organ toxicity – single exposure	Causes damage to organs.
Coommassie Brilliant Blue G 250 Dye (6104-5	8-1)

Specific target organ toxicity - repeated : Not classified

exposure

: Not classified Aspiration hazard Viscosity, kinematic : No data available

### **SECTION 12: Ecological information**

#### **Toxicity** 12.1.

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

phosphoric acid, conc=85% (7664-38-2)				
LC50 fish 1	138 mg/l (Pisces, Pure substance)			
methanol (67-56-1)				
LC50 fish 1	15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)			
EC50 Daphnia 1	18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)			
ErC50 (algae)	22000 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)			

#### 12.2. Persistence and degradability

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phosphoric acid, conc=85% (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
methanol (67-56-1)	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O₂/g substance
Chemical oxygen demand (COD)	1.42 g O <sub>2</sub> /g substance
ThOD	1.5 g O <sub>2</sub> /g substance
Coommassie Brilliant Blue G 250 Dye (6104	-58-1)
Persistence and degradability	Biodegradability in soil: no data available. Biodegradability in water: no data available.

### 12.3. Bioaccumulative potential

phosphoric acid, conc=85% (7664-38-2)			
Bioaccumulative potential	cumulative potential Does not contain bioaccumulative component(s).		
methanol (67-56-1)			
BCF fish 1	1 - 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value)		
Log Pow	-0.77 (Experimental value)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
Coommassie Brilliant Blue G 250 Dye (6104-58-1)			
Bioaccumulative potential	No bioaccumulation data available.		

### 12.4. Mobility in soil

phosphoric acid, conc=85% (7664-38-2)			
Ecology - soil	No (test)data on mobility of the components available.		
methanol (67-56-1)			
Surface tension	0.023 N/m (20 °C)		
Log Koc	0.088 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		
Ecology - soil	Highly mobile in soil.		

### 12.5. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Waste treatment methods.

## **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Not applicable

**Transportation of Dangerous Goods** 

Transport by sea

Not regulated

Air transport

Not regulated

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

### phosphoric acid, conc=85% (7664-38-2)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ 5000 lb

### methanol (67-56-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 5000 lb

### Coommassie Brilliant Blue G 250 Dye (6104-58-1)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### **CANADA**

### methanol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

#### **National regulations**

No additional information available

### 15.3. US State regulations

methanol (67-56-1)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
No	Yes	No	No		47000 μg/day (inhalation); 23,000 μg/day (oral)

### **SECTION 16: Other information**

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Revision date : 09/20/2017

#### Full text of H-phrases:

H225	Highly flammable liquid and vapour
H227	Combustible liquid
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H370	Causes damage to organs

SDS US (GHS HazCom 2012)

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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### Safety Data Sheet

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Date of issue: 07/18/2013 Revision date: 05/11/2017 Version: 7.1

### **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Product name : Glyco Positive and Negative Control

Product code : 122G

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Research and development

1.3. Supplier

Geno Technology, Inc./ G-Biosciences 9800 Page Avenue Saint Louis, 63132-1429 - United States T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Not classified

### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

No labeling applicable

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

### **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Specific hazards arising from the chemical

No additional information available

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### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to ta

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Storage temperature : -20 °C

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

### **Glyco Positive and Negative Control**

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment

### 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

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Appearance : Powder.

Color : No data available Odor No data available Odor threshold : No data available На : No data available Melting point No data available Freezing point : Not applicable Boiling point No data available Flash point Not applicable Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) Non flammable. Vapor pressure : No data available No data available Relative vapor density at 20 °C Relative density : Not applicable Solubility : No data available No data available Log Pow Auto-ignition temperature : Not applicable : No data available Decomposition temperature Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosion limits** Not applicable Explosive properties : No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Oxidizing properties

The product is non-reactive under normal conditions of use, storage and transport.

: No data available

#### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Hazardous decomposition products.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

: Not classified Acute toxicity (oral) Acute toxicity (dermal) Not classified : Not classified Acute toxicity (inhalation) Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitization Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

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Specific target organ toxicity - single exposure : Not classified Specific target organ toxicity - repeated

exposure

: Not classified

Aspiration hazard : Not classified Viscosity, kinematic : No data available

### **SECTION 12: Ecological information**

#### **Toxicity**

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

### Persistence and degradability

No additional information available

#### 12.3. **Bioaccumulative potential**

No additional information available

#### **Mobility in soil**

No additional information available

#### Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### **Disposal methods**

Waste treatment methods : Waste treatment methods.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Other information : No supplementary information available.

**Transportation of Dangerous Goods** 

#### Transport by sea

Not regulated

### Air transport

Not regulated

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

### **CANADA**

#### **EU-Regulations**

### **National regulations**

No additional information available

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15.3. US State regulations

## **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 05/11/2017

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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### Safety Data Sheet

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Date of issue: 01/31/2014 Revision date: 05/11/2017 Version: 7.1

### **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Product name : Glyco Stain Solution

Product code : 123G

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Research and development

1.3. Supplier

Geno Technology, Inc./ G-Biosciences 9800 Page Avenue Saint Louis, 63132-1429 - United States T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Serious eye damage/eye irritation Category 1

gory 1 H318 Causes serious eye damage

Carcinogenicity Category 1B

H350 May cause cancer

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US) : H318 - Causes serious eye damage

H350 - May cause cancer

Precautionary statements (GHS US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P308+P313 - If exposed or concerned: Get medical advice/attention.

P310 - Immediately call a poison center or doctor

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

### 2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
disodium disulphite	corexit 9186 / disodium disulfite / disodium disulphite / disodium metabisulfite / disodium pyrosulfite / disodium pyrosulfite / disodium pyrosulphite / disulfurous acid, disodium salt / E223 / pyrosulfurous acid disodium salt / pyrosulfurous acid sodium salt / sodium acid sulfite / sodium disulfite / sodium metabisulfite / sodium metabisulfite / sodium metasulfite / sodium pyrosulfite / sodium pyrosulfite / sodium pyrosulphite / Uantox SMBS	(CAS-No.) 7681-57-4	2 - 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 3, H402
C.I. Basic Red 9	4-((4-aminophenyl)(4-imino-2,5-cyclohexadien-1-ylidene)methyl), monochloride / 4, 4'-((4-imino-2,5-cyclohexadien-1-ylidene)methyl), monochloride / 4, 4'-((4-imino-2,5-cyclohexadien-1-ylidene)methylene)dianiline monohydrochloride / 4, 4'-(4-iminocyclohexa-2,5-dienylidenemethylene)dianiline hydrochloride / 4, 4', 4"-triaminotriphenylmethane hydrochloride / 4-toluidine, alpha-(p-aminophenyl)-alpha-(4-imino-2,5-cyclohexadien-1-ylidene)-, monohydrochloride / basic fuchsin (=C.I. basic red 9) / basic parafuchsine (=C.I. basic red 9) / basic rubine (=C.I. basic red 9) / basic rubine (=C.I. basic red 9) / benzenamine, 4-[(4-aminophenyl)(4-imino-2,5-cyclohexadien-1-ylidene)methyl]-, monohydrochloride / C.I. 42500 / C.I. Basic Red 9 / C.I. Basic Red 9, monohydrochloride / calcozine magenta N / cerven zasadita 9 / fuchsine DR-001 / fuchsine SP / fuchsine SPC / magenta (=C.I. basic red 9) / orient paramagenta base / parafuchsin hydrochloride / pararosaniline / pararosaniline / pararosaniline / pararosaniline / prosaniline hydrochloride / p-rosaniline hydrochloride / p-rosaniline (=C.I. basic red 9) / schultz-tab no 779 / solvent red 41	(CAS-No.) 569-61-9	0.5 - 2	Carc. 1B, H350
hydrogen chloride, conc=36%, aqueous solution (Note B)	hydrochloric acid, conc=37%, aqueous solution	(CAS-No.) 7647-01-0	0.05 - 0.5	Skin Corr. 1A, H314 STOT SE 3, H335

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Full text of hazard classes and H-statements : see section 16

### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after eye contact : Serious damage to eyes.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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#### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Specific hazards arising from the chemical

No additional information available

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures

: Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information

: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes.

Hygiene measures

: Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

Storage temperature : 4 °C

#### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Glyco	Stain	Solution	

No additional information available

### disodium disulphite (7681-57-4)

### **USA - ACGIH - Occupational Exposure Limits**

ACGIH TWA (mg/m³) 5 mg/m³

### hydrogen chloride, conc=36%, aqueous solution (7647-01-0)

No additional information available

#### C.I. Basic Red 9 (569-61-9)

No additional information available

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### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Wear respiratory protection.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : No data available : No data available Odor No data available Odor threshold рΗ : No data available Melting point Not applicable Freezing point : No data available Boiling point : No data available Flash point No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) Not applicable. Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density No data available Solubility : No data available No data available Log Pow : No data available Auto-ignition temperature Decomposition temperature : No data available Viscosity, kinematic No data available Viscosity, dynamic No data available **Explosion limits** No data available

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Explosive properties

Oxidizing properties

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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No data available

: No data available

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#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Hazardous decomposition products.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

disodium disulphite (7681-57-4)		
LD50 oral rat	1540 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))	
LC50 inhalation rat (mg/l)	> 5.5 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))	
ATE US (oral)	1540 mg/kg body weight	

#### C.I. Basic Red 9 (569-61-9)

LD50 oral rat 3200 mg/kg (Rat, Oral)

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.

### C.I. Basic Red 9 (569-61-9)

National Toxicology Program (NTP) Status Reasonably anticipated to be Human Carcinogen

Reproductive toxicity : Not classified

Specific target organ toxicity - single exposure : Not classified

### hydrogen chloride, conc=36%, aqueous solution (7647-01-0)

Specific target organ toxicity – single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated

exposure

: Not classified

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Symptoms/effects after eye contact : Serious damage to eyes.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

disodium disulphite (7681-57-4)	
LC50 fish 1	316 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Read-across, Nominal concentration)
EC50 Daphnia 1	89 mg/l (EU Method, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 (algae)	43.8 mg/l (Equivalent or similar to OECD 201, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

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hydrogen chloride, conc=36%, aqueous solution (7647-01-0)	
LC50 fish 1 282 mg/l (96 h, Gambusia affinis, Pure substance)	
EC50 Daphnia 1 < 56 mg/l (72 h, Daphnia magna, Pure substance)	

### 12.2. Persistence and degradability

disodium disulphite (7681-57-4)		
Persistence and degradability	Biodegradability in water: no data available.	
Chemical oxygen demand (COD)	0.154 g O <sub>2</sub> /g substance	
hydrogen chloride, conc=36%, aqueous solut	ion (7647-01-0)	
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
C.I. Basic Red 9 (569-61-9)		
Persistence and degradability	Biodegradability in water: no data available.	

### 12.3. Bioaccumulative potential

disodium disulphite (7681-57-4)		
Bioaccumulative potential No bioaccumulation data available.		
hydrogen chloride, conc=36%, aqueous soluti	on (7647-01-0)	
Log Pow	0.25 (QSAR)	
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).		
C.I. Basic Red 9 (569-61-9)		
Log Pow	-0.21	
Bioaccumulative potential	Not bioaccumulative.	

### 12.4. Mobility in soil

disodium disulphite (7681-57-4)				
Surface tension	urface tension 70.7 mN/m (20 °C, OECD 115: Surface Tension of Aqueous Solutions)			
Ecology - soil	oil No (test)data on mobility of the substance available.			
hydrogen chloride, conc=36%, aqueous solution (7647-01-0)				
Ecology - soil	No (test)data on mobility of the components available. May be harmful to plant growth, blooming and fruit formation.			

### 12.5. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Waste treatment methods.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Not applicable

**Transportation of Dangerous Goods** 

### Transport by sea

Not regulated

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### Air transport

Not regulated

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

### disodium disulphite (7681-57-4)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### hydrogen chloride, conc=36%, aqueous solution (7647-01-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313 Subject to reporting requirements of United States SARA Section 313

, , ,	
CERCLA RQ	5000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb

#### C.I. Basic Red 9 (569-61-9)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### **CANADA**

### hydrogen chloride, conc=36%, aqueous solution (7647-01-0)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

#### **National regulations**

### C.I. Basic Red 9 (569-61-9)

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

### 15.3. US State regulations

C.I. Basic Red 9	C.I. Basic Red 9 (569-61-9)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	3	

### **SECTION 16: Other information**

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Revision date : 05/11/2017

### Full text of H-phrases:

H302	Harmful if swallowed	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H335	May cause respiratory irritation	
H350	May cause cancer	
H402	Harmful to aquatic life	

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SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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Date of issue: 07/16/2013 Revision date: 05/11/2017 Version: 7.1

### **SECTION 1: Identification**

### 1.1. Identification

Product form : Substance

Substance name : Glyco-Oxidizing Reagent

 CAS-No.
 : 10450-60-9

 Product code
 : 169G

 Formula
 : H5IO6

Synonyms : o-periodic acid / ortho-periodic acid / orthoperiodic-acid / periodic acid (H5IO6)

BIG No : 21277

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemical

#### 1.3. Supplier

Geno Technology, Inc./ G-Biosciences 9800 Page Avenue Saint Louis, 63132-1429 - United States T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.com

#### 1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Oxidizing solids Category 2 H272 May intensify fire; oxidizer

Skin corrosion/irritation Category 1 H314 Causes severe skin burns and eye damage

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

### **GHS US labeling**

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US) : H272 - May intensify fire; oxidizer

H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P220 - Keep/Store away from clothing and other combustible materials

P221 - Take any precaution to avoid mixing with combustibles

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

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

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303+P350+P351 - If swallowed. Trise mouth. Do NOT induce vorniting
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

P303+P301+P353 - II Off Skiff (of hair). Take oil immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep 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 P310 - Immediately call a poison center or doctor

P321 - Specific treatment (see supplemental first aid instruction on this label)

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use media other than water to extinguish.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

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### Other hazards which do not result in classification

No additional information available

### **Unknown acute toxicity (GHS US)**

Not applicable

### SECTION 3: Composition/Information on ingredients

### **Substances**

Substance type : Mono-constituent

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Glyco-Oxidizing Reagent (Main constituent)	o-periodic acid / ortho-periodic acid / orthoperiodic-acid / periodic acid (H5IO6)	(CAS-No.) 10450-60-9	100	Ox. Sol. 2, H272 Skin Corr. 1, H314

Full text of hazard classes and H-statements : see section 16

Not applicable

### **SECTION 4: First-aid measures**

### **Description of first aid measures**

First-aid	measures	general
i ii st aiu	IIICasaics	general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

Remove the victim into fresh air. Immediately consult a doctor/medical service.

First-aid measures after skin contact

Wash immediately with lots of water (15 minutes)/shower. Wash immediately with PE-glycol 400. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

First-aid measures after eye contact

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an

ophthalmologist.

First-aid measures after ingestion

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Do not give chemical antidote. Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital.

#### 42 Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Causes severe skin burns. Corrosive to the respiratory tract. Causes serious eye damage.

Symptoms/effects after skin contact

Burns.

Symptoms/effects after eye contact

Serious damage to eyes.

Symptoms/effects after ingestion

Burns

### Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

: Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting extinguisher, reel). Water. Class A foam.

Unsuitable extinguishing media

: Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.

### Specific hazards arising from the chemical

Fire hazard

: DIRECT FIRE HAZARD: Material presenting a fire hazard. INDIRECT FIRE HAZARD: May intensify fire; oxidiser. Temperature above flashpoint: higher fire/explosion hazard. Reactions involving a fire hazard: see "Reactivity Hazard".

### Special protective equipment and precautions for fire-fighters

Precautionary measures fire

: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions

: Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

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Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face-shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen

apparatus.

Emergency procedures : Mark the danger area. No naked flames. Keep containers closed. Wash contaminated clothes.

In case of reactivity hazard: consider evacuation.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam

up the solid spill. Knock down/dilute dust cloud with water spray. Take account of

toxic/corrosive precipitation water.

Methods for cleaning up : Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Spill must

not return in its original container. Carefully collect the spill/leftovers. Take collected spill to manufacturer/competent authority. Clean contaminated surfaces with an excess of water. Wash

clothing and equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air

regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep container

tightly closed.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible materials : Combustible materials.

Storage temperature : 4 °C

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. reducing agents. organic materials.

(strong) bases. water/moisture.

Storage area : Store in a dry area. Store in a dark area. Keep container in a well-ventilated place. Meet the

legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. watertight. dry. clean. opaque. correctly labelled. meet

the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: glass.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### Glyco-Oxidizing Reagent (10450-60-9)

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

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Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

Gloves

#### Eye protection:

Face shield. In case of dust production: protective goggles

### Skin and body protection:

Corrosion-proof clothing. In case of dust production: head/neck protection

#### Respiratory protection:

Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid.
Color : White to light yellow

Odor : Mild odour Characteristic odour

Odor threshold : No data available

pH : 1.2 (10 %) Melting point : 122 °C

Freezing point : Not applicable
Boiling point : No data available

Flash point : 90 °C

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable. Vapor pressure : No data available Relative vapor density at 20 °C : Not applicable

Relative density : 4.5

Specific gravity / density : 4500 kg/m³
Molecular mass : 227.94 g/mol

Solubility : Soluble in water. Soluble in ethanol. Soluble in ether. Soluble in nitric acid.

Water: 243 g/100ml

Log Pow : No data available
Auto-ignition temperature : Not applicable
Decomposition temperature : > 130 °C

Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : Not applicable
Explosive properties : No data available

Oxidizing properties : May intensify fire; oxidiser.

### 9.2. Other information

VOC content : 0 %

Other properties : Hygroscopic. Acid reaction.

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts exothermically with many compounds e.g.: with combustible materials, with organic material and with (some) metals with risk of spontaneous ignition.

#### 10.2. Chemical stability

Unstable on exposure to light. Hygroscopic.

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#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

Combustible materials.

### 10.6. Hazardous decomposition products

Hazardous decomposition products.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 1.2 (10 %)

Serious eye damage/irritation : Eye damage, category 1, implicit

pH: 1.2 (10 %)

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified : Not classified : Not classified

exposure

Aspiration hazard

: Not classified

Viscosity, kinematic : No data available

Potential Adverse human health effects and

symptoms

: Causes severe skin burns. Corrosive to the respiratory tract. Causes serious eye damage.

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general
 Before neutralisation, the product may represent a danger to aquatic organisms.
 Ecology - air
 Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
 Ecology - water
 Groundwater pollutant. Water pollutant (surface water). Insufficient data available on ecotoxicity. pH shift.

### 12.2. Persistence and degradability

Glyco-Oxidizing Reagent (10450-60-9)	
Persistence and degradability Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

### 12.3. Bioaccumulative potential

Glyco-Oxidizing Reagent (10450-60-9)	
Bioaccumulative potential	No bioaccumulation data available.

#### 12.4. Mobility in soil

No additional information available

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### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 12.5. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste treatment methods

: Waste treatment methods.

Product/Packaging disposal recommendations

Do not discharge into drains or the environment. Remove to an authorized plant for the destruction, neutralization and elimination of hazardous waste. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse.

Additional information

: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No.

### 1357/2014 and Regulation (EU) No 2017/997.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN3085 Oxidizing solid, corrosive, n.o.s., 5.1 (8), II

UN-No.(DOT) : UN3085

Proper Shipping Name (DOT) : Oxidizing solid, corrosive, n.o.s.

Class (DOT) : 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128

Packing group (DOT) : II - Medium Danger

Subsidiary risk (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

: 212

Hazard labels (DOT) : 5.1 - Oxidizer

8 - Corrosive





DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

DOT Symbols

DOT Special Provisions (49 CFR 172.102)

: G - Identifies PSN requiring a technical name

: 62 - Oxygen generators (see §171.8 of this subchapter) are not authorized for transportation under this entry.

IB6 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2). Additional Requirement: Composite IBCs 11HZ2 and 21HZ2 may not be used when the hazardous materials being transported may become liquid during transport.

IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.

T3 - 2.65 178.274(d)(2) Normal...... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group III or T7 for solid substances of packing group III or T8 for solid substances of packing group III or T9 solid su

DOT Packaging Exceptions (49 CFR 173.xxx) : None

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### Safety Data Sheet

**DOT Vessel Stowage Location** 

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Quantity Limitations Passenger aircraft/rail : 5 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 25 kg

CFR 175.75)

CFR 175.75)

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

DOT Vessel Stowage Other : 13 - Keep as dry as reasonably practicable,34 - Stow "away from" foodstuffs,56 - Stow

"separated from" ammonium compounds,58 - Stow "separated from" cyanides

Emergency Response Guide (ERG) Number : 14

Other information : No supplementary information available.

**Transportation of Dangerous Goods** 

Transport by sea

Not regulated

Air transport

Not regulated

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

#### Glyco-Oxidizing Reagent (10450-60-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### **CANADA**

### Glyco-Oxidizing Reagent (10450-60-9)

Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations** 

#### **National regulations**

No additional information available

15.3. US State regulations

### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules / Vol. 77, No. 58 / Monday, March 27, No. 58 / Monday, March 27, No. 58 / Monday, Monday, March 27, No. 58 / Monday, March 27, No

Revision date : 05/11/2017

Full text of H-phrases:

H272	May intensify fire; oxidizer
H314	Causes severe skin burns and eye damage

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/07/2014 Revision date: 05/11/2017 Version: 7.1

#### **SECTION 1: Identification**

1.1. Identification

Product form : Substance

Substance name : Glyco-Reducing Reagent

 CAS-No.
 : 7681-57-4

 Product code
 : 188G-B

 Formula
 : Na2S2O5

Synonyms : corexit 9186 / disodium disulfite / disodium disulphite / disodium metabisulfite / disodium

pyrosulfite / disodium pyrosulphite / disulfurous acid, disodium salt / E223 / pyrosulfurous acid disodium salt / pyrosulfurous acid sodium salt / sodium acid sulfite / sodium disulfite / sodium metabisulfite / sodium metabisulphite / sodium metabisulfite / sodium pyrosulfite / sodium

pyrosulphite / Uantox SMBS

BIG No : 13082

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Preservative

1.3. Supplier

Geno Technology, Inc./ G-Biosciences

9800 Page Avenue

Saint Louis, 63132-1429 - United States

T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Acute toxicity (oral) Category 4 H302 Harmful if swallowed
Serious eye damage/eye irritation Category 1 H318 Causes serious eye damage
Hazardous to the aquatic environment - Acute Hazard Category 3 H402 Harmful to aquatic life

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

### **GHS US labeling**

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US) : H302 - Harmful if swallowed

H318 - Causes serious eye damage H402 - Harmful to aquatic life

Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell

P305+P351+P338 - 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

P330 - Rinse mouth.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards which do not result in classification

No additional information available

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#### **Unknown acute toxicity (GHS US)** 2.4.

Not applicable

### **SECTION 3: Composition/Information on ingredients**

#### **Substances** 3.1.

Substance type : Mono-constituent

Name Glyco-Reducing Reagent

CAS-No. 7681-57-4

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
disodium disulphite	corexit 9186 / disodium disulfite / disodium disulphite / disodium metabisulfite / disodium pyrosulfite / disodium pyrosulfite / disodium pyrosulfite / disodium salt / fixed pyrosulfurous acid, disodium salt / fixed pyrosulfurous acid disodium salt / fixed pyrosulfurous acid sodium salt / fixed sodium acid sulfite / sodium disulfite / sodium metabisulfite / sodium metabisulfite / sodium metasulfite / sodium pyrosulfite / sodium fixed pyrosulfite / Jantox SMBS	(CAS-No.) 7681-57-4	100	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 3, H402

Full text of hazard classes and H-statements: see section 16

#### **Mixtures**

Not applicable

### **SECTION 4: First-aid measures**

### **Description of first aid measures**

First-aid measures general

- : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
- First-aid measures after inhalation
- First-aid measures after skin contact
- First-aid measures after eye contact
- First-aid measures after ingestion
- : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
- Wash with water and soap. Take victim to a doctor if irritation persists.
- Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist. Do not apply neutralizing agents.
- Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

### Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms

: Harmful if swallowed. Practically non-toxic in contact with skin (LD50 skin > 2000 mg/kg). Not irritant to skin. Practically non-toxic by inhalation (LC50 inh, rat > 5 mg/l/4h). Causes serious

Symptoms/effects after inhalation

AFTER INHALATION OF DUST/MIST: Drv/sore throat. Coughing, Irritation of the respiratory tract. Irritation of the nasal mucous membranes. ON CONTINUOUS EXPOSURE/CONTACT: Possible inflammation of the respiratory tract. Respiratory difficulties.

Symptoms/effects after skin contact

Red skin.

Symptoms/effects after eye contact

Corrosion of the eye tissue. Lacrimation. Conjunctivitis.

Symptoms/effects after ingestion

Irritation of the gastric/intestinal mucosa. Nausea. Vomiting. Abdominal pain.

Chronic symptoms

: Skin rash/inflammation. Possible inflammation of the respiratory tract. Respiratory difficulties.

#### Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

#### Suitable (and unsuitable) extinguishing media 5.1.

Suitable extinguishing media : Water spray. Dry powder. Foam.

#### Specific hazards arising from the chemical

Fire hazard : DIRECT FIRE HAZARD: Non combustible

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### 5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to

fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water

spray. Take account of toxic/corrosive precipitation water.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen

apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight

suit.

Emergency procedures : Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated

clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider

evacuation.

Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and

windows.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply.

Knock down/dilute dust cloud with water spray. If reacting: dilute toxic gas/vapour with water

spray. Take account of toxic/corrosive precipitation water.

Methods for cleaning up : Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Clean

contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air

regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Keep container

tightly closed.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Maximum storage period : 2 year Storage temperature : 4 °C

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. water/moisture.

Storage area : Store in a dry area. Keep container in a well-ventilated place. Store at ambient temperature.

Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: hermetical. watertight. dry. correctly labelled. meet the legal

requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: iron. aluminium. stoneware/porcelain. synthetic material. glass.

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### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Glyco-Reducing Reagent (7681-57-4)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³) 5 mg/m³		
disodium disulphite (7681-57-4)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	5 mg/m³	

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

### Materials for protective clothing:

GIVE GOOD RESISTANCE: chloroprene rubber. nitrile rubber. butyl rubber. fluor rubber

#### Hand protection:

Gloves

#### Eye protection:

Safety glasses. In case of dust production: protective goggles

### Skin and body protection:

Protective clothing

#### Respiratory protection:

Dust production: dust mask with filter type P2

### SECTION 9: Physical and chemical properties

0.4	Information on books	المساعدة والمراجع المساعدة	
9.1.	information on basic	physical and chemical	properties

Physical state : Solid

Appearance : Crystalline solid. Crystalline powder.

Color : Colourless to light yellow

Odor : Irritating/pungent odour Unpleasant odour

Odor threshold : No data available

pH : 4.5 (25 %)

Melting point : Not applicable (decomposes)

Freezing point : Not applicable

Boiling point : Not applicable (decomposes)

Flash point : Not applicable
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Non flammable.
Vapor pressure : Not applicable
Relative vapor density at 20 °C : Not applicable

Relative density : 2.36 (20 °C, ISO 1183-1: Pycnometer Method)

Specific gravity / density : 1480 kg/m³
Molecular mass : 190.11 g/mol

Solubility : Soluble in water. Soluble in glycerol.

Water: 66.7 g/100ml (25 °C) Acetone: < 0.001 g/100ml (20 °C)

Log Pow : No data available
Auto-ignition temperature : Not applicable

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Decomposition temperature : > 150 °C

Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosion limits : Not applicable Explosive properties : Not explosive.

Oxidizing properties : No data available

#### 9.2. Other information

VOC content : 0 %

Other properties : Acid reaction.

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts exothermically with (strong) oxidizers. Decomposes slowly on exposure to air and on exposure to water (moisture).

#### 10.2. Chemical stability

Unstable on exposure to moisture. Unstable on exposure to air.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Hazardous decomposition products.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Glyco-Reducing Reagent (7681-57-4)		
LD50 oral rat	1540 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))	
LC50 inhalation rat (mg/l)	> 5.5 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))	
ATE US (oral)	1540 mg/kg body weight	
disodium disulphite (7681-57-4)		

disodium disulphite (7681-57-4)	
LD50 oral rat	1540 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	> 5.5 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))
ATE US (oral)	1540 mg/kg body weight

Skin corrosion/irritation : Not classified

pH: 4.5 (25 %)

Serious eye damage/irritation : Causes serious eye damage.

pH: 4.5 (25 %)

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

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### Safety Data Sheet

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Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated

exposure

: Not classified

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Potential Adverse human health effects and

symptoms

: Harmful if swallowed. Practically non-toxic in contact with skin (LD50 skin > 2000 mg/kg). Not irritant to skin. Practically non-toxic by inhalation (LC50 inh, rat > 5 mg/l/4h). Causes serious

eve damage.

Symptoms/effects after inhalation : AFTER INHALATION OF DUST/MIST: Dry/sore throat. Coughing. Irritation of the respiratory

tract. Irritation of the nasal mucous membranes. ON CONTINUOUS EXPOSURE/CONTACT:

Possible inflammation of the respiratory tract. Respiratory difficulties.

Symptoms/effects after skin contact : Red skir

Symptoms/effects after eye contact : Corrosion of the eye tissue. Lacrimation. Conjunctivitis.

Symptoms/effects after ingestion : Irritation of the gastric/intestinal mucosa. Nausea. Vomiting. Abdominal pain.

Chronic symptoms : Skin rash/inflammation. Possible inflammation of the respiratory tract. Respiratory difficulties.

### **SECTION 12: Ecological information**

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ErC50 (algae)

Ecology - general : Harmful to aquatic life.

Ecology - air : Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not

classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

43.8 mg/l (Equivalent or similar to OECD 201, 72 h, Desmodesmus subspicatus, Static

system, Fresh water, Experimental value, Nominal concentration)

Ecology - water : Harmful to crustacea. Slightly harmful to fishes. No inhibition of activated sludge. Harmful to

algae. pH shift.

Glyco-Reducing Reagent (7681-57-4)	
LC50 fish 1	316 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Read-across, Nominal concentration)
EC50 Daphnia 1	89 mg/l (EU Method, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 (algae)	43.8 mg/l (Equivalent or similar to OECD 201, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
disodium disulphite (7681-57-4)	
LC50 fish 1	316 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Read-across, Nominal concentration)
EC50 Daphnia 1	89 mg/l (EU Method, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)

### 12.2. Persistence and degradability

Glyco-Reducing Reagent (7681-57-4)	
Persistence and degradability	Biodegradability in water: no data available.
Chemical oxygen demand (COD) 0.154 g O <sub>2</sub> /g substance	
disodium disulphite (7681-57-4)	
Persistence and degradability	Biodegradability in water: no data available.
Chemical oxygen demand (COD)	0.154 g O₂/g substance

### 12.3. Bioaccumulative potential

Glyco-Reducing Reagent (7681-57-4)	
Bioaccumulative potential No bioaccumulation data available.	
disodium disulphite (7681-57-4)	
disodium disulphite (7681-57-4)	

### 12.4. Mobility in soil

Glyco-Reducing Reagent (7681-57-4)		
Surface tension	70.7 mN/m (20 °C, OECD 115: Surface Tension of Aqueous Solutions)	
Ecology - soil	No (test)data on mobility of the substance available.	

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### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

disodium disulphite (7681-57-4)	
Surface tension	70.7 mN/m (20 °C, OECD 115: Surface Tension of Aqueous Solutions)
Ecology - soil	No (test)data on mobility of the substance available.

#### 12.5. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste treatment methods

: Waste treatment methods.

Product/Packaging disposal recommendations

Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

Recycle/reuse. Remove to an authorized dump (Class I).

Additional information

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No

1357/2014 and Regulation (EU) No 2017/997.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Other information

: No supplementary information available.

### **Transportation of Dangerous Goods**

### Transport by sea

Not regulated

#### Air transport

Not regulated

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

#### disodium disulphite (7681-57-4)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### **CANADA**

### **EU-Regulations**

#### **National regulations**

No additional information available

#### 15.3. US State regulations

### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 05/11/2017

Full text of H-phrases:

H302	Harmful if swallowed
H318	Causes serious eye damage
H402	Harmful to aquatic life

NFPA health hazard

: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

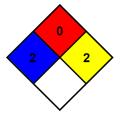
NFPA fire hazard

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity

: 2 - Materials that readily undergo violent chemical change

at elevated temperatures and pressures.



SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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