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## SAFETY DATA SHEET

Date Created 09/30/2017  
Date Updated  
Version 1.0

### Section 1-Identification of the substance/mixture and of the company/undertaking

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#### 1.1 Identification of the substance or mixture

Product code : M00680  
Product name : MOPS Running Buffer liquid (20X)

#### 1.2 Company/undertaking identification

GenScript Technologies : Laboratory chemicals, Manufacture of substances

#### 1.3 24 hour Emergency Response:

Emergency Phone #: 1-732-885-9188  
Telephone : 1-877-436-7274  
Fax : 1-732-210-0262  
E-mail address : [product@genscript.com](mailto:product@genscript.com)  
Web : <http://www.genscript.com>

#### 1.4 For Research Use Only. Not for use in diagnostic procedures.

### Section 2- Hazards identification

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#### 2.1 GHS - Classification

##### Signal Word

WARNING

##### Health hazards

Skin corrosion Category 3

##### Physical hazards

Not hazardous

##### Hazard Statements

H302 Harmful if swallowed.  
H316 - Causes mild skin irritation  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

##### Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist /spray.  
P280 Wear protective gloves.  
P280 Wear 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.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.  
P332 + P313 - If skin irritation occurs: Get medical advice/attention

#### 2.2 Principle Routes of Exposure Potential Health Effects

##### Eyes

May cause eye irritation with susceptible persons.

##### Skin

Causes mild skin irritation.

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**Inhalation**

Mild skin irritation.

**Ingestion**

May be Harmful if swallowed

**2.3 Specific effects****Carcinogenic effects**

None.

**Mutagenic effects**

None.

**Reproductive toxicity**

None.

**Sensitization**

none

**Target Organ Effects**

No known effects under normal use conditions.

**2.4 HMIS**

Health	1
Flammability	0
Reactivity	0

**Section 3- Composition/information on ingredients**

Chemical Name	CAS-No	EINECS-No	Weight %
SDS	151-21-3	205-788-1	5.6
Tris	77-86-1	201-064-4	34
EDTA	6381-92-6	200-449-4	1.7
MOPS	1132-61-2	214-478-5	58.7

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Section 4- First aid measures****4.1 Skin contact**

Rinse cautiously with water for several minutes. Immediate medical attention is not required.

**4.2 Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15minutes. If symptoms persist, call a physician

**4.3 Ingestion**

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

**4.4 Inhalation**

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

**4.4 Notes to Physician**

Treat symptomatically.

**Section 5- Firefighting measures****5.1 Suitable extinguishing media**

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

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## 5.2 Special protective equipment for firefighters

Standard procedure for chemical fires.

## 5.3 Specific hazards arising from the chemical

Not known

## Section 6- Accidental release measures

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### 6.1 Personal precautions

Always wear recommended Personal Protective Equipment. Use personal protection equipment.

### 6.2 Methods for cleaning up

Soak up with inert absorbent material.

### 6.3 Environmental precautions

No special environmental precautions required.

See Section 12 for more information.

## Section 7- Handling and storage

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### 7.1 Handling

Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

### 7.2 Storage

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

## Section 8- Exposure controls/personal protection

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### 8.1 Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
SDS	None	None	None	None
Tris	None	None	None	None
EDTA	None	None	None	None
MOPS	None	None	None	None

### 8.2 Engineering measures

Ensure adequate ventilation, especially in confined areas.

### 8.3 Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Hand protection

Impervious gloves.

#### Eye protection

Wear safety glasses with side shields (or goggles).

#### Skin and Body Protection

Lightweight protective clothing.

#### Hygiene measures

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Handle in accordance with good industrial hygiene and safety practice.

#### 8.4 Environmental exposure controls

No special environmental precautions required.

### Section 9- Physical and chemical properties

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#### 9.1 General information

Form	Liquid
Appearance	Liquid
Odor	No data available
Odor Threshold	No data available
Boiling point / boiling range	°C No data available °F No data available
Melting point / melting range	°C No data available °F No data available
flash point:	°C No data available °F No data available
Autoignition Temperature	°C No data available °F No data available
Oxidizing properties	No data available
Water solubility	No data available

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#### 10.1 Stability

Stable under normal conditions.

#### 10.2 Materials to avoid

No dangerous reaction known under conditions of normal use.

#### 10.3 Hazardous decomposition

Hazardous reaction has not been reported.

#### 10.4 Products polymerization

Hazardous polymerization does not occur.

### Section 11-Toxicological information

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#### 11.1 Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
SDS	=1288 mg/kg (Rat)	No data available	>3900mg/m <sup>3</sup> (Rat)
Tris	=5900 mg/kg	No data available	No data available
EDTA	No data available	No data available	No data available
MOPS	No data available	No data available	No data available

No toxicology information is available.

### 11.2 Principle Routes of Exposure Potential Health Effects

eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	None.

## Section 12- Ecological information

### 12.1 Ecotoxicity

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

### 12.2 Mobility

No information available.

### 12.3 Biodegradation

Inherently biodegradable.

### 12.4 Bioaccumulation

Material does not bioaccumulate.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
SDS	Pseudokirchneriella subcapitata EC50=117 mg/L(96h)	Daphnia magna EC50=1.8 mg/L (48 h)	-	-	-
151-21-3	Desmodesmus subspicatus EC50=5.3 mg/L (72 h), Desmodesmus subspicatus EC5030 - 100 mg/L (96 h) Pseudokirchneriella subcapitata EC503.59 - 15.6 mg/L (96 h)				

## Section 13- Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## Section 14- Transport information

### 14.1 IATA

<b>Proper Shipping Name</b>	No dangerous good in sense of these transport regulations
<b>Hazard Class</b>	None
<b>Subsidiary class</b>	None
<b>Packing group</b>	None
<b>UN-No</b>	None

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**Section 15- Regulatory information**

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**15.1 US Federal Regulations****SARA 313**

This product is not regulated by SARA.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contains HAPs.

**15.2 US State Regulations**

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
SDS	-	-	-	-	-
Tris	-	-	-	-	-
EDTA	-	-	-	-	-
MOPS	-	-	-	-	-

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**15.3 WHMIS Hazard Class**

Non-controlled

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.

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**Section 16- Other information**

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**16.1 Reason for revision**

SDS sections updated.

For Research Use Only. Not for use in diagnostic procedures.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

**End of Safety Data Sheet**