# **Safety Data Sheet**



Issue Date: 27-Sep-2023 Revision Date: 27-Sep-2023 Version 1

#### 1. IDENTIFICATION

**Product identifier** 

Product Name Solution G

Other means of identification

**SDS #** SYS-090

Recommended use of the chemical and restrictions on use
Recommended Use Laboratory chemicals.

Details of the supplier of the safety data sheet

Supplier Address Sysmex America, Inc. 577 Aptakisic Road Lincolnshire, IL 60069

USA

Company Phone Number 224-543-9500

Emergency telephone number

Emergency Telephone ChemTel Inc. 800-255-3924 (North America)

1-813-248-0585 (International)

## 2. HAZARDS IDENTIFICATION

Appearance Colorless liquid Physical state Liquid Odor Characteristic

#### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Glycerol	56-81-5	10-25

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

# 4. FIRST AID MEASURES

## **Description of first aid measures**

General Advice Take affected persons out into the fresh air. Do not leave affected persons unattended.

**Eye Contact** Rinse opened eye for several minutes under running water. Then consult a doctor.

**Skin Contact** Immediately wash with water and soap and rinse thoroughly.

**Inhalation** Supply fresh air; consult doctor in case of complaints.

**Ingestion** Call for a doctor immediately.

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

**Symptoms** May be harmful if inhaled.

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

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

Formation of toxic gases is possible during heating or in case of fire.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions Ensure adequate ventilation. Wear protective clothing.

Environmental precautions

Environmental precautions Do not allow to enter sewers/surface or ground water. See Section 12 for additional

Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

**Methods for Clean-Up** Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on Safe Handling Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the

workplace. Store in cool, dry place in tightly closed receptacles.

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

**Storage Conditions** Store only in the original receptacle. Store in a cool location. Store away from foodstuffs.

Store away from oxidizers. Keep container tightly closed. Store in cool, dry conditions in

well sealed receptacles.

**Incompatible Materials**None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol	-	TWA: 15 mg/m <sup>3</sup> mist, total	-
56-81-5		particulate	
		TWA: 5 mg/m³ mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate	
		(vacated) TWA: 5 mg/m <sup>3</sup> mist,	
		respirable fraction	

## **Appropriate engineering controls**

**Engineering Controls** Showers. Eyewash stations. Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly sealed goggles. Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Protective gloves. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** Not necessary if room is well-ventilated. Refer to 29 CFR 1910.134 for respiratory

protection requirements.

General Hygiene Considerations Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and

contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact

with the eyes and skin.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid

AppearanceColorless liquidOdorCharacteristicColorColorlessOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No data available
Melting point / freezing point No data available
Initial boiling point and boiling
range
No data available
No data available

Flash point

Evaporation Rate

Flammability (Solid, Gas)

No data available
Not determined
Liquid-Not applicable

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor Pressure 23 hPa

Vapor DensityNo data availableRelative DensityNot determinedWater SolubilityFully miscibleSolubility in other solventsNot determinedPartition CoefficientNot determined

Autoignition temperature Product is not self igniting

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

HyphenNot determinedKinematic viscosityNot determinedDynamic ViscosityNot determined

**Explosive Properties** Product does not present an explosion hazard

Oxidizing Properties Not determined

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

## **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### **Conditions to Avoid**

Keep out of reach of children.

#### Incompatible materials

None known based on information supplied.

## **Hazardous decomposition products**

Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** May be harmful if inhaled.

**Ingestion** Do not ingest.

## **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L (Rat) 4 h
56-81-5			

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

## **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

 Oral LD50
 50,400.00 mg/kg

 Dermal LD50
 40,000.00 mg/kg

 ATEmix (inhalation-dust/mist)
 11.00 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Glycerol		LC50: 51 - 57mL/L (96h,	
56-81-5		Oncorhynchus mykiss)	

## Persistence/Degradability

Not determined.

#### Bioaccumulation

There is no data for this product.

#### **Mobility**

Chemical name	Partition coefficient		
Glycerol	-1.75		
56-81-5			

#### Other adverse effects

Not determined

# 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

# 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** Not regulated

IATA Not regulated

IMDG Not regulated

# 15. REGULATORY INFORMATION

#### **International Inventories**

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AIIC
Glycerol	Х	ACTIVE	Х	Х	Х	Х	Х	Х	X

#### Legend:

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

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

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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

#### **SARA 313**

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

#### **CWA (Clean Water Act)**

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

## **US State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Glycerol	X	X	X
56-81-5			

# **16. OTHER INFORMATION**

Issue Date:27-Sep-2023Revision Date:27-Sep-2023Revision Note:New format

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

Page 7/7