

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME GLYCOLIC ACID SOLUTION (70%) (High Purity)

PRODUCT CODE 2627

SUPPLIER MEDISCA Inc.

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5-9 Ricketty Street, Mascot, NSW 2020

EMERGENCY PHONE CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300

NSW Poisons Information Centre: 131 126

National Chemical Emergency Centre 44(0)1235239670

RECOMMENDED USES Manufacturing and Compounding

RESTRICTIONS ON USE Not applicable

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Acute Toxicity - Oral (Category 5)

Eye Damage (Category 1) Skin Corrosion (Category 1B)

Acute Toxicity - Inhalation (Category 5)

PICTOGRAM

SIGNAL WORD Danger

HAZARD STATEMENT(S) Corrosive

Causes serious eye damage.

Causes severe skin burns and eye damage. May be harmful if inhaled or swallowed

ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL

EFFECTS

PRECAUTIONARY STATEMENT(S)

Not Applicable.

Prevention Do not breathe dust or mist.

Wash hands thoroughly after handling. Do not touch eyes.

Wear protective gloves, protective clothing, eye and face protection.



Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Immediately rinse

skin with water for several minutes. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately; Immediately call a poison center or medical

professional;

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF INHALED or SWALLOWED: Get medical help.

Storage Store locked up.

Disposal Dispose of contents and/or container in accordance with local regulations.

HMIS CLASSIFICATION Health Hazard 3 Flammability 1

Reactivity 0 Personal Protection

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME Not applicable

BOTANICAL NAME Not applicable

SYNONYM Not applicable

CHEMICAL FORMULA Not applicable

CHEMICAL FAMILY Not applicable

CAS NUMBER Not applicable

ALTERNATE CAS NUMBER Not applicable

MOLECULAR WEIGHT Not applicable

COMPOSITION

NOTES

CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
FORMIC ACID	64-18-6	200-579-1	0.1 - 1
GLYCOLIC ACID	79-14-1	201-180-5	70-72

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

Balance is water

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT

Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

IN CASE OF SKIN CONTACT Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a

physician.

MEDICAL ATTENTION AND SPECIAL

TREATMENT

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Get emergency medical help.

SYMPTOMS CAUSED BY EXPOSURE Not expected to present a significant hazard under anticipated conditions of normal use.



SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM

THE CHEMICAL

Oxidizing Substance: May cause or intensify fire; oxidizer.

FLAMMABLE PROPERTIES

May be combustible at high temperature

HAZARDOUS COMBUSTION PRODUCTS

Under fire conditions, hazardous fumes will be present.

SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

Small fire: dry chemical, CO₂ or water spray. Large fire: dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

METHODS & MATERIAL FOR

CONTAINMENT

On land, sweep or shovel into suitable containers.

CLEANUP PROCEDURE

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

CONDITIONS FOR SAFE STORAGE

Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

STORAGE CONDITIONS

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Store in original container, tightly sealed, protected from direct sunlight and moisture.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	5	9	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A



NIOSH	USA	5	9	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	5	9.4	10	19	N/L	N/L	N/A	N/A
HSE	UK	5	9.6	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Austria	5	9	5	9	N/L	N/L	N/A	N/A
GESTIS	Belgium	5	9.5	10(1)	19(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Canada-Ontario	5	N/L	10	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada-Quebec	5	9.4	10(1)	19(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Denmark	5	9	10	18	N/L	N/L	N/A	N/A
GESTIS	European Union	5	9	N/L	N/L	N/L	N/L	N/A	Indicative Occupational Exposure Limit Value (IOELV)
GESTIS	Finland	3	5	10(1)	19(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	France	5	9	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Germany (AGS)	5	9.5	10(1)	19(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Germany (DFG)	5	9.5	10(1)	19(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Hungary	N/L	9	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Ireland	5	9	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Italy	5	9	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Japan (JSOH)	5	9.4	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Latvia	5	9	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	New Zealand	5	9.4	10	19	N/L	N/L	N/A	N/A
GESTIS	Norway	5	9	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	China	N/L	10	N/L	20(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Poland	N/L	5	N/L	15	N/L	N/L	N/A	N/A
GESTIS	Romania	5	9	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Singapore	5	9.4	10	19	N/L	N/L	N/A	N/A
GESTIS	South Africa	10	N/L	20(1)	N/L	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	South Africa Mining	5	19	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	South Korea	5	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Spain	5	9	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	South Korea	5	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Spain	5	9	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Sweden	3	5	5(1)	9(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Switzerland	5	9.5	10	19	N/L	N/L	N/A	N/A
GESTIS	The Netherlands	N/L	N/L	2.7(1)	5(1)	N/L	N/L	N/A	(1) 15 minutes average value



	GESTIS Turkey	5	9	N/L	N/L	N/L	N/L	N/A	N/A
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Chemical Name: GLYCOLIC ACID CAS #: 79-14-1

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes	
		ppm	mg/m³	ppm	mg/m³					
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
GESTIS	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	

N/L = Not listed; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable

fraction: 5 mg/m3

PERSONAL PROTECTIVE EQUIPMENT Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. **Thermal Hazards:** For products representing a

thermal hazard, appropriate Personal Protective Equipment should be used.

SPECIFIC ENGINEERING CONTROLS

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

BIOLOGICAL MONITORING

Not available

CONTROL BANDING

Not available

NOTES Glycolic acid: ELV: (industrial) TWA: 10 mg/m³ (8 - 12 hr)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Liquid

DESCRIPTION Clear, colorless liquid which is free of visible suspended matter with slight odor.

SOLUBILITY Soluble in water.

ODOR Slight odor

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FLAMMABILITY May be combustible at high temperature

AUTO-IGNITION Not available BOILING POINT 112°C, 234°F DECOMPOSITION Not available TEMPERATURE 1013 hPa) DECOMPOSITION Not available TEMPERATURE

EVAPORATION RATE Not available **EXPLOSIVE LIMIT** Not available **FLASH POINT** >100°C, 212°F

 log P
 Not available
 LOWER FLAMMABLE/
 Not available
 MELTING/FREEZING
 10°C, 50°F

 (OCTANOL-WATER)
 EXPLOSIVE LIMIT(S)
 POINT



PARTICLE Not available OXIDIZING PROPERTY Not available pН 0.1 (25°C) **CHARACTERISTICS RELATIVE DENSITY** 1.25 (25°C) UPPER FLAMMABLE/ SPECIFIC GRAVITY Not available 1.26 g/cm3 **EXPLOSIVE LIMIT(S)** (WATER = 1)(20°C) VAPOR DENSITY Not available VAPOR PRESSURE 0.0041 hPa VISCOSITY 11.28 mPa.s (AIR = 1)(15.6°C) (25°C) (dynamic)

The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY Oxidizing Substance: May cause or intensify fire; oxidizer.

CHEMICAL STABILITY Stable under recommended storage conditions

INCOMPATIBLE MATERIALS Strong oxidizing agents. Bases. Cyanides. Sulphides. Active metals (such as sodium, potassium, magnesium).

Strong alkalis. Self-reactive substances and mixtures. Organic peroxides.

HAZARDOUS DECOMPOSITION

PRODUCTS

Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur

HAZARDOUS POLYMERIZATION Will not occur Not established

POSSIBLITY OF HAZARDOUS

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REACTION

CONDITIONS TO AVOID Moisture, sunlight and extreme temperatures

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY Calculated ATE:

Oral: Rat: LD50: (mg/kg): 2683

Dermal: Rabbit LD50: (mg/kg): Not available Inhalation: Rat: LD50: (mg/L/4hr): 5.0

SKIN CORROSION/IRRITATION Causes severe skin damage (corrosive)

GLYCOLIC ACID: Corrosive after 3 minutes to 1 hour of exposure, Rabbit

FORMIC ACID: Causes severe burns., Not tested on animals

pH: 0.1 (25°C)

SERIOUS EYE DAMAGE/EYE Causes serious eye damage (corrosive)

GLYCOLIC ACID: Corrosive, Rabbit **IRRITATION**

FORMIC ACID: Corrosive. Not tested on animals

pH: 0.1 (25°C)

RESPIRATORY SENSITIZATION Based on available data, the classification criteria are not met.

SKIN SENSITIZATION Due to lack of data, the classification is not possible.

GERM CELL MUTAGENICITY Based on available data, the classification criteria are not met.

CARCINOGENICITY **OSHA** No component of this product, present at ≥0.1%, is listed.

> NTP No component of this product, present at ≥0.1%, is listed.

IARC No component of this product, present at ≥0.1% has been evaluated.



California

No component of this product, present at ≥0.1% is known to the State of California to cause

Proposition 65

cancer, birth defects, or any other reproductive harm.

ADDITIONAL CARCINOGENICITY INFORMATION

Based on available data, the classification criteria are not met.

REPRODUCTIVE TOXICITY

Due to lack of data the classification is not possible.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

Due to lack of data the classification is not possible.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

Due to lack of data the classification is not possible.

ASPIRATION HAZARDS

EXPOSURE

Due to lack of data the classification is not possible.

SIGNS AND SYMPTOMS OF

ROUTES OF EXPOSURE:

Oral, Dermal, Inhalation, Eye contact

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Not available

Eye contact may cause stinging, tearing, redness, swelling, corrosion, ulceration and severe irritation of the eyes. Can injure the cornea and cause blindness, redness, burning and swelling of the skin, burns and other skin damage.

Skin contact may provoke the following symptoms: Irritation, rash, necrosis, discomfort.

Ingestion may cause corrosion of mucous membranes with stomach and intestinal irritation including gastrointestinal discomfort, nausea, vomiting and diarrhea, abdominal pain and vomiting of blood, diarrhea shock, and abnormal kidney function or kidney damage.

Inhalation may cause non-specific effects such as headache, nausea, pain, weakness or shortness of breath; irritation and corrosion of the mucous membranes with nose, throat, bronchial, and lung irritation with sneezing, sore throat, runny nose, cough, difficulty breathing or shortness of breath or pulmonary edema with cough, wheezing abnormal lung sounds, possibly progressing to severe shortness of breath and bluish discoloration of the skin. Gross overexposure may cause fatality.

POTENTIAL HEALTH EFFECTS

Inhalation Harmful if inhaled. Causes respiratory tract damage (corrosive)

Ingestion May be harmful if swallowed.

Skin Harmful if absorbed through skin. Causes severe skin damage (corrosive)

Eyes Causes serious eye damage (corrosive)

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

Calculated ATE:

EC50: 48 Hr: Crustacea: Daphnia magna (mg/L): 190

LC50: 96 Hr: Fish: (mg/L): 222

EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not availablele

PERSISTENCE AND DEGRADABILITY

GLYCOLIC ACID is readily biodegradable. After 7 days, 89.3% biodegraded.

BIOACCUMULATIVE POTENTIAL

Not available

MOBILITY IN SOIL

Soluble in water.

OTHER ADVERSE EFFECTS

Not available

This product is not intended to be released into the environment



SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

UN NUMBER 3265
CLASS 8

PACKING GROUP

<u>AUSTRALIA</u>

HAZCHEM 2X

<u>EU</u>

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE

IBC CODE

Not listed

ENVIRONMENTAL HAZARDS Not available SPECIAL SHIPPING INFORMATION Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CF Appendix A	FR Part 355 Appendix B	Pennsylvania	Right-to-know New Jersey		California Prop 65
GLYCOLIC ACID, 79-14-1	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L
FORMIC ACID 64-18-6	X	X	N/L	N/L	Х	Х	Х	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
GLYCOLIC ACID, 79-14-1	N/L	Listed as Schedule	N/L	Listed	N/L	N/L
		6				
FORMIC ACID 64-18-6	N/L	Listed as Schedule	Listed as Category	Listed	N/L	N/L
		5	III			

N/L = Not Listed

EU REGULATIONS

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Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
GLYCOLIC ACID, 79-14-1	N/L	N/L	N/L	N/L	N/L	N/L	N/L
FORMIC ACID 64-18-6	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL

AGREEMENT

Not applicable

SECTION 16: OTHER INFORMATION

REFERENCES

ABBREVIATIONS AND ACRONYMS

Available upon request

ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL - American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR - Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS - Chemical Abstract Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; EC50 - Effective Concentration, 50%; EPA - Environmental Protection Agency; GHS - Global Harmonized System; HMIS - Hazardous Materials Information System; HSE - Health and Safety Executive; HSIS - Hazardous Substances Information System; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN - Ready Biodegradability Model; ISS - Instituto Superiore Sanità; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OSHA PEL - Occupational Safety & Health Administration Permissible Exposure Limits; QSAR - Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TLV - Threshold Limit Value; TWA - Time Weighted Average; WHMIS - Workplace Hazardous Materials Information System

LAST REVISION SUPERSEDES 06/2023

01/2019

For a list of changes to the SDS since the last version, please communicate with MEDISCA at www.medisca.com

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.