

Safety Data Sheet

Material Name: Gut Solution

SDS ID: COV-021

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Gut Solution

Product Use

Used with sutures

Restrictions on Use

For use under medical supervision only.

Manufacturer Information

Covidien, LP

15 Hampshire Street

Mansfield, MA 02048

USA

Phone: +1-(508) 261-8000 (Monday - Friday 8:00 am to 5:00 pm)

Email: customerservice@medtronic.com

Emergency Telephone Number:

CHEMTREC (800) 424-9300 (for US and Canada)

1(703) 527-3887 (Outside US and Canada)

Collect calls accepted

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquids - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Skin Sensitization - Category 1A

Reproductive Toxicity - Category 2

Specific Target Organ Toxicity - Single Exposure - Category 1 (central nervous system, kidneys, systemic toxicity)

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 1 (Hematopoietic System)

Specific Target Organ Toxicity - Repeated Exposure - Category 2 (Cardiovascular system,liver,spleen,respiratory system)

GHS Label Elements

Symbol(s)



Signal Word

Danger

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Hazard Statement(s)

Highly flammable liquid and vapor
Causes serious eye irritation
May cause allergic skin reaction
Suspected of damaging fertility or the unborn child
Causes damage to organs
May cause respiratory irritation. May cause drowsiness or dizziness
Causes damage to organs through prolonged or repeated exposure
May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep container tightly closed
Keep away from heat/sparks/open flame/hot surfaces - No smoking
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Take precautionary measures against static discharge
Use only non-sparking tools
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapours/spray
Wash thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace
Do not eat, drink or smoke when using this product

Response

In case of fire: Use appropriate media to extinguish
If exposed: Call a POISON CENTER or doctor/physician
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
Specific treatment (see label)

Storage

Store in a well-ventilated place. Keep container tightly closed
Keep cool
Store locked up

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

Other Hazards

No additional information available.

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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent (%)
67-63-0	Isopropanol	> 85
102-71-6	Triethanolamine	< 2
7732-18-5	Water	< 15

Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin

Remove/Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation or rash occurs, seek medical advice/attention.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Do NOT induce vomiting. If swallowed, get medical attention.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute

Causes serious eye irritation. May cause allergic skin reaction. Causes damage to central nervous system, kidneys, and systemic toxicity. May cause respiratory irritation. May cause drowsiness or dizziness.

Delayed

Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure: Hematopoietic System. May cause damage to organs through prolonged or repeated exposure: Cardiovascular system, liver, spleen, respiratory system.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Dry chemical, foam or carbon dioxide.

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Unsuitable Extinguishing Media

None reported.

Special Hazards Arising from the Chemical

Highly flammable liquid and vapor. Beware of reignition. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback.

Hazardous Combustion Products

Oxides of carbon, oxides of nitrogen

Fire Fighting Measures

Move container from fire area if it can be done without risk. Stay upwind and keep out of low areas. Avoid inhalation of material or combustion by-products. Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Absorb with earth, sand or other non-combustible material and transfer to container. Wear protective gloves/protective clothing/eye protection/face protection. Remove all sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry.

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Keep away from heat and ignition sources. Keep away from incompatible materials.

Incompatible Materials

Acids, strong oxidizing agents, halogens, aluminum, acid anhydrides, Coatings, plastic, rubber

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Isopropanol	67-63-0
ACGIH:	200 ppm TWA
	400 ppm STEL
NIOSH:	400 ppm TWA; 980 mg/m ³ TWA
	500 ppm STEL; 1225 mg/m ³ STEL
	2000 ppm IDLH (10% LEL)
OSHA (US):	400 ppm TWA; 980 mg/m ³ TWA
Mexico:	400 ppm TWA LMPE-PPT; 980 mg/m ³ TWA LMPE-PPT
	500 ppm STEL [LMPE-CT]; 1225 mg/m ³ STEL [LMPE-CT]
Triethanolamine	102-71-6
ACGIH:	5 mg/m ³ TWA

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

Provide for sufficient ventilation. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear safety glasses with side-shields.

Skin Protection

Wear appropriate work clothing.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection.

Glove Recommendations

Wear appropriate chemical resistant gloves. Do not wear gloves made of polyvinyl alcohol (PVA).

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Physical State	Liquid
Odor	Alcohol	Color	Colorless
Odor Threshold	Not available	pH	Not available

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Melting Point	Not available	Boiling Point	87 °C (188.6 °F)
Freezing point	Not available	Evaporation Rate	2 (reference as n-butyl acetate=1)
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	Not available	Flash Point	11 °C (53 °F)
Lower Explosive Limit	2 %	Decomposition	Not available
Upper Explosive Limit	12 %	Vapor Pressure	25 (20 °C)
Vapor Density (air=1)	>1	Specific Gravity (water=1)	0.82
Water Solubility	Completely soluble	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	Not available		

Other Information

No additional information available.

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid shock. Take precautionary measures against static discharge. Avoid contact with incompatible materials.

Incompatible Materials

Acids, strong oxidizing agents, halogens, aluminum, acid anhydrides, Coatings, plastic, rubber

Hazardous decomposition products

Oxides of carbon, oxides of nitrogen

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Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May cause respiratory irritation. May cause drowsiness or dizziness.

Skin Contact

May cause allergic skin reaction.

Eye Contact

Causes serious eye irritation.

Ingestion

No information on significant adverse effects.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Isopropanol (67-63-0)

Oral LD50 Rat 5045 mg/kg (Safety Data Sheet)

Dermal LD50 Rabbit 12800 mg/kg (Safety Data Sheet)

Inhalation LC50 Rat 1600 ppm 4 h (Safety Data Sheet)

Triethanolamine (102-71-6)

Oral LD50 Rat >5000 mg/kg (Safety Data Sheet)

Dermal LD50 Rabbit >2000 mg/kg (Safety Data Sheet)

Immediate Effects

Causes serious eye irritation. May cause allergic skin reaction. Causes damage to central nervous system, kidneys, and systemic toxicity. May cause respiratory irritation. May cause drowsiness or dizziness.

Delayed Effects

Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure: Hematopoietic System. May cause damage to organs through prolonged or repeated exposure: Cardiovascular system, liver, spleen, respiratory system.

Irritation/Corrosivity Data

Causes serious eye irritation. May cause respiratory irritation.

Respiratory Sensitization

No data available.

Dermal Sensitization

May cause allergic skin reaction.

Component Carcinogenicity

Isopropanol	67-63-0
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977] (Group 3 (not classifiable))
Triethanolamine	102-71-6

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IARC:	Monograph 77 [2000] (Group 3 (not classifiable))
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Germ Cell Mutagenicity

No data available.

Reproductive Toxicity

Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Central Nervous System, kidneys, systemic toxicity

Specific Target Organ Toxicity - Repeated Exposure

Hematopoietic System, Cardiovascular system, liver, spleen, respiratory system

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

May cause allergic skin reaction. Repeated exposure may cause dermatitis.

Additional Data

No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Avoid release to the environment.

Component Analysis - Aquatic Toxicity

Isopropanol	67-63-0
Fish:	LC50 96 h Pimephales promelas 9640 mg/L [flow-through]; LC50 96 h Pimephales promelas 11130 mg/L [static]; LC50 96 h Lepomis macrochirus >1400000 µg/L
Algae:	EC50 96 h Desmodesmus subspicatus >1000 mg/L IUCLID; EC50 72 h Desmodesmus subspicatus >1000 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 13299 mg/L IUCLID
Triethanolamine	102-71-6
Fish:	LC50 96 h Pimephales promelas 10600 - 13000 mg/L [flow-through]; LC50 96 h Pimephales promelas >1000 mg/L [static]; LC50 96 h Lepomis macrochirus 450 - 1000 mg/L [static]
Algae:	EC50 72 h Desmodesmus subspicatus 216 mg/L IUCLID; EC50 96 h Desmodesmus subspicatus 169 mg/L IUCLID

Persistence and Degradability

Isopropanol: Readily degraded in water.

Bioaccumulative Potential

No information available for the product.

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Mobility

Isopropanol: Expected to have high mobility in soil.

Bioconcentration

Isopropanol: Low bioconcentration, BCF: 3.

Other Toxicity

No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: Flammable liquid, n.o.s. (isopropyl alcohol)

Hazard Class: 3

UN/NA #: UN1993

Packing Group: II

Required Label(s): 3

Additional information: No additional information available

IATA Information:

Shipping Name: Flammable liquid, n.o.s. (isopropyl alcohol)

Hazard Class: 3

UN#: UN1993

Packing Group: II

Required Label(s): 3

Additional information: Consult current IATA regulations prior to shipping by air

IMDG Information:

Shipping Name: Flammable liquid, n.o.s. (isopropyl alcohol)

Hazard Class: 3

UN#: UN1993

Packing Group: II

Required Label(s): 3

Additional information: No additional information available

TDG Information:

Shipping Name: Flammable liquid, n.o.s. (isopropyl alcohol)

Hazard Class: 3

UN#: UN1993

Packing Group: II

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Required Label(s): 3

Additional information: No additional information available

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b).

Isopropanol	67-63-0
SARA 313:	1 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Isopropanol	67-63-0
	1 %
Triethanolamine	102-71-6
	1 %

Section 16 - OTHER INFORMATION

Summary of Changes

New SDS: May 6, 2015

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States; WHMIS - Workplace Hazardous Materials Information System

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Other Information

Disclaimer:

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