

Safety Data Sheet

Material Name: GLYSTAR® A-31 Polyol Solution 270322

SDS ID: Polyols-024

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

GLYSTAR® A-31 Polyol Solution 270322

Synonyms

Sorbitol Solution and Glycerin

Product Description

Various uses.

Details of the supplier of the safety data sheet

Ingredion Incorporated

5 Westbrook Corporate Center

Westchester, IL 60154 USA

Phone: (708) 551-2600

Product Info/Customer Service: Business Hours:

Mon - Fri, 7:30 a.m. - 5:00 p.m. (CST)

Fax: (708) 551-2510

Ingredion Canada Corporation

1600-90 Burnhamthorpe Road West

Mississauga, ON L5B 0H9 Canada

Phone: (905) 281-7950

Product Info/Customer Service: Business Hours:

Mon - Fri, 7:30 a.m. - 6:00 p.m. (EST)

Fax: (905) 281-7951

Emergency Phone #: 1-800-424-9300
(CHEMTREC)

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(CHEMTREC)

Section 2 - HAZARDS IDENTIFICATION

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

None needed according to classification criteria

GHS Label Elements**Symbol(s)**

None needed according to classification criteria

Signal Word

None needed according to classification criteria

Hazard Statement(s)

None needed according to classification criteria

Precautionary Statement(s)**Prevention**

None needed according to classification criteria

Response

None needed according to classification criteria

Storage

None needed according to classification criteria

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Disposal

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

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
50-70-4	D-Glucitol	75
Proprietary	Proprietary	25

Section 4 - FIRST AID MEASURES**Inhalation**

Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.

Eyes

Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

If a large amount is swallowed, get medical attention.

Section 5 - FIRE FIGHTING MEASURES**Extinguishing Media****Suitable Extinguishing Media**

Regular dry chemical, carbon dioxide, water spray. Large fires: Use regular foam or flood with fine water spray.

Unsuitable Extinguishing Media

None.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Special Protective Equipment and Precautions for Firefighters

In case of fire: Wear self-contained breathing apparatus. Wear suitable protective clothing.

Section 6 - ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures**

See protective measures under point 7 and 8.

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Methods and Materials for Containment and Cleaning Up

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

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Proprietary	Proprietary
OSHA (US):	15 mg/m ³ TWA mist, total particulate; 5 mg/m ³ TWA mist, respirable fraction
Mexico:	10 mg/m ³ TWA LMPE-PPT mist

Biological limit value

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

Engineering Controls

None.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

If eye contact is likely, wear chemical resistant safety goggles.

Skin Protection

Protective clothing is not required under normal conditions.

Respiratory Protection

Respiratory protection is not required under normal conditions of use. If respirable dusts are generated, respiratory protection may be needed.

Glove Recommendations

Protective gloves are not required under normal conditions.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	clear, colorless, syrupy liquid	Physical State	Not available
Odor	No detectable foreign odor	Color	clear
Odor Threshold	Not available	pH	5.0 - 7.5 (50% w/w in water)
Melting Point	Not available	Boiling Point	Not available
Freezing point	Not available	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	1.329 @25°C
Water Solubility	soluble	Partition coefficient: n-octanol/water	Not available
Viscosity	1,400 cps @25 °C	Solubility (Other)	Not available
Density	Not available	Taste	Clean sweet taste

Section 10 - STABILITY AND REACTIVITY

Reactivity

No known hazardous reactions.

Chemical Stability

The product is stable under storage at normal ambient temperatures.

Possibility of Hazardous Reactions

None.

Conditions to Avoid

None.

Incompatible Materials

Oxidizing agents.

Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

Section 11 - TOXICOLOGICAL INFORMATION

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:

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D-Glucitol (50-70-4)
 Oral LD50 Rat 15900 mg/kg
 Proprietary (Proprietary)
 Oral LD50 Rat 12600 mg/kg
 Dermal LD50 Rabbit >10 g/kg
 Inhalation LC50 Rat >570 mg/m³ 1 h

Immediate Effects

No information on significant adverse effects.

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity Data

No data available.

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

Germ Cell Mutagenicity

No data available.

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

No data available.

Specific Target Organ Toxicity - Repeated Exposure

No data available.

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

No data available.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Proprietary	Proprietary
Fish:	LC50 96 h Oncorhynchus mykiss 51 - 57 mL/L [static]

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Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste in accordance with environmental legislation.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

No Classification assigned.

TDG Information:

No Classification assigned.

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

FDA - Direct Food Additive

The following component(s) of this product are listed on the FDA - Direct Food Additive:

Proprietary (Proprietary)

FDA - Food additives Generally Recognized as Safe(GRAS)

The following component(s) of this product are listed on the FDA - Food additives Generally Recognized as Safe(GRAS):

D-Glucitol (50-70-4)

Proprietary (Proprietary)

FDA - Food additives Generally Recognized as Safe(GRAS) –Select Committee on GRAS Substances(SCOGS)

The following component(s) of this product are listed on the FDA - Food additives Generally Recognized as Safe(GRAS) –Select Committee on GRAS Substances(SCOGS):

D-Glucitol (50-70-4)

Proprietary (Proprietary)

FDA - Food additives Permitted in Food on an Interim Basis

No components of this material are listed.

FDA - Substances Prohibited from use in human food

No components of this material are listed.

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Proprietary	Proprietary	No	Yes	Yes	Yes	Yes

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Not listed under California Proposition 65
Component Analysis - Inventory

D-Glucitol (50-70-4)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Proprietary (Proprietary)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Section 16 - OTHER INFORMATION
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.

Other Information
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