

# Safety Data Sheet

## Glycerin, Anhydrous (Glycerol), ACS

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Glycerin, Anhydrous (Glycerol), ACS

**Synonyms/Generic Names:** 1,2,3-Propanetriol; Glycerol

**Product Number:** 2435

**Product Use:** Industrial, Manufacturing or Laboratory use

**Manufacturer:** Columbus Chemical Industries, Inc.  
N4335 Temkin Rd.  
Columbus, WI. 53925

**For More Information Call:** 920-623-2140 (Monday-Friday 8:00-4:30)

**In Case of Emergency Call:** CHEMTREC 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

**OSHA Hazards:** Irritant

**Target Organs:** Kidneys

**Signal Words:** Warning

**Pictograms:** None

**GHS Classification**

Eye irritation	Category 2B
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**GHS Label Elements, including precautionary statements:**

**Hazard Statements:**

H320	Causes eye irritation
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**Precautionary Statements:**

P264	Wash hands thoroughly after handling.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

**Potential Health Effects**

<b>Eyes</b>	Cause eye irritation.
<b>Inhalation</b>	May cause respiratory tract irritation.
<b>Skin</b>	May cause skin irritation.
<b>Ingestion</b>	May be harmful if swallowed.

**NFPA Ratings**

Health	1
Flammability	1
Reactivity	0
Specific hazard	Not Available

**HMIS Ratings**

Health	1
Fire	1
Reactivity	0
Personal	B

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Glycerin	>96	56-81-5	200-289-5	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	92.09 g/mol
Water	Balance	7732-18-5	231-791-2	H <sub>2</sub> O	18.00 g/mol

**4. FIRST-AID MEASURES**

<b>Eyes</b>	Rinse with plenty of water for at least 15 minutes and seek medical attention if necessary.
<b>Inhalation</b>	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.
<b>Skin</b>	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.
<b>Ingestion</b>	<b>Do Not Induce Vomiting!</b> Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

**5. FIREFIGHTING MEASURES**

<b>Suitable (and unsuitable) extinguishing media</b>	Excess heat may cause vapors to ignite. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide on fires involving this product.
<b>Special protective equipment and precautions for firefighters</b>	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots if necessary.
<b>Specific hazards arising from the chemical</b>	Emits fumes (oxides of carbon) under fire conditions. (See also Stability and Reactivity section).

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions, protective equipment and emergency procedures</b>	See section 8 for recommendations on the use of personal protective equipment.
<b>Environmental precautions</b>	Do not let product enter drains. Any release to the environment may be subject to federal/national or local reporting requirements.
<b>Methods and materials for containment and cleaning up</b>	Absorb spill with vermiculite or other inert absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

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## 7. HANDLING AND STORAGE

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### Precautions for safe handling

Avoid contact with eyes. Avoid inhalation of vapor or mist. See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Occupational exposure controls:** Ventilation and appropriate grounding of containers.

Component	Exposure Limits	Basis	Entity
Glycerin	15* mg/m <sup>3</sup> 5** mg/m <sup>3</sup>	PEL	OSHA
	10*** mg/m <sup>3</sup>	TLV	ACGIH

\*Total dust

\*\*Respirable fraction

\*\*\*Mist

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

### Personal Protection

<b>Eyes</b>	Wear chemical safety glasses or goggles.
<b>Inhalation</b>	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
<b>Skin</b>	Wear nitrile or rubber gloves and apron or lab coat.
<b>Other</b>	Not Available

### Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance (physical state, color, etc.)	Clear liquid.
Odor	Not Available
Odor threshold	Not Available
pH	5.5 - 8
Melting point/freezing point	20°C (68°F)
Initial boiling point and boiling range	182°C (360°F) at 27 hPa (20 mmHg)
Flash point	160°C (320°F) – closed cup
Evaporation rate	Not Available

Flammability (solid, gas)	Not Available
Upper/lower flammability or explosive limit	Lower - 0.9%
Vapor pressure	0.0033 hPa (0.0025 mmHg) at 50°C (122°F)
Vapor density	3.18 (air = 1)
Relative density	1.25 g/mL
Solubility (ies)	Soluble
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	370°C (698°F)
Decomposition temperature	Not Available

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	Will not occur.
<b>Conditions to Avoid</b>	Air, incompatibilities.
<b>Incompatible Materials</b>	Oxidizers, bases.
<b>Hazardous Decomposition Products</b>	Carbon oxides

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## 11. TOXICOLOGICAL INFORMATION

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### Acute Toxicity

<b>Skin</b>	LD50 Dermal – rabbit - >10,000 mg/kg
<b>Eyes</b>	Eyes – rabbit – Mild eye irritation - 24 h
<b>Respiratory</b>	Not Available
<b>Ingestion</b>	LD50 Oral – rat – 12,600 mg/kg

### Carcinogenicity

<b>IARC</b>	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>ACGIH</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
<b>NTP</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<b>OSHA</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Signs & Symptoms of Exposure

<b>Eyes</b>	May cause eye irritation.
<b>Inhalation</b>	Headache.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Ingestion</b>	May be harmful if swallowed. Nausea, vomiting.

<b>Chronic Toxicity</b>	Kidney - Irregularities - Based on Human Evidence
<b>Teratogenicity</b>	Not Available
<b>Mutagenicity</b>	Not Available
<b>Embryotoxicity</b>	Not Available
<b>Specific Target Organ Toxicity</b>	Not Available
<b>Reproductive Toxicity</b>	Not Available
<b>Respiratory/Skin Sensitization</b>	Not Available

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## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

<b>Aquatic Vertebrate</b>	LC50 – Pimephales promelas (fathead minnow) – 44,000 mg/l LC50 – Carassius auratus (goldfish) - >5,000 mg/l LC50 – Oncorhynchus mykiss (rainbow trout) – 67,500 mg/l – 96 hours
<b>Aquatic Invertebrate</b>	Not Available
<b>Terrestrial</b>	Not Available

<b>Persistence and Degradability</b>	Not Available
<b>Bioaccumulative Potential</b>	Not Available
<b>Mobility in Soil</b>	Not Available
<b>PBT and vPvB Assessment</b>	Not Available
<b>Other Adverse Effects</b>	Not Available

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## 13. DISPOSAL CONSIDERATIONS

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<b>Waste Residues</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
<b>Product Containers</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

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## 14. TRANSPORTATION INFORMATION

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US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

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## 15. REGULATORY INFORMATION

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TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	No SARA Hazard
SARA 304	No SARA Hazard
SARA 311	Chronic Health Hazard
SARA 312	Chronic Health Hazard
SARA 313	No SARA Hazard
WHMIS Canada	Not WHMIS Listed

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## 16. OTHER INFORMATION

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Revision	Date
Revision 1	07-29-2011
Revision 2	10/30/2014

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