

SAFETY DATA SHEET

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Product: Simoniz – Anti-Freeze

Revision: 05-Sep-2026
SDS No.: AV-CG5050-01

WARNING: HARMFUL IF SWALLOWED | KEEP OUT OF REACH OF CHILDREN AND ANIMALS

SECTION 1: IDENTIFICATION

Product identifier	01627 - Simoniz – Anti-Freeze
Other names	Prediluted 50/50 ethylene glycol engine coolant; conventional green coolant
Recommended use	Engine antifreeze and coolant for automotive and compatible industrial cooling systems.
Restrictions on use	Do not ingest. Do not use as food, beverage, pharmaceutical, or process fluid unless specifically approved.
Responsible party / distributor	Mr. Brands LLC
Address	1414 Radcliffe St. Suite 105. Bristol, PA 19007
Company / distributor emergency phone	877-420-7555
24-hour transportation emergency	CHEMTREC: 1-800-424-9300 (U.S./Canada) - use only if Mr. Brands LLC. has an active CHEMTREC registration for this product.

SECTION 2: HAZARD(S) IDENTIFICATION

GHS classification	Acute Toxicity - Oral, Category 4; Specific Target Organ Toxicity - Repeated Exposure, Category 2; Reproductive Toxicity, Category 2 (developmental).
Signal word	WARNING
GHS pictogram names	Exclamation Mark; Health Hazard
Hazard statements	H302 Harmful if swallowed. H361d Suspected of damaging the unborn child. H373 May cause damage to kidneys through prolonged or repeated exposure.
Physical hazards	Not classified as hazardous under normal conditions of use.
Hazards not otherwise classified	Spilled product may create a slip hazard. Heated product may generate irritating vapor or mist.
Unknown acute toxicity	No applicable information identified for ingredients present at >=1% based on the formulation information presently available.

- P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe mist or vapors. P264 Wash exposed skin thoroughly after handling. P270 Do not eat, drink, or smoke when using this product.
- P280 Wear protective gloves and eye protection when splash exposure is possible.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. P330 Rinse mouth. Do not induce vomiting unless directed by medical personnel.
- P308+P313 IF exposed or concerned: Get medical advice/attention. P501 Dispose of contents/container in accordance with applicable regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Typical concentration	Notes
Ethylene glycol	107-21-1	Approx. 50%	Hazardous component
Water	7732-18-5	Approx. 50%	Non-hazardous
Corrosion inhibitor package / dye	Proprietary	Small amount	Exact identity/concentration may be withheld as trade secret where permitted

Note: The uploaded source SDS states approximately 50% ethylene glycol / 50% water with proprietary inhibitors and dye. Final ingredient ranges must match the actual production formula before release.

SECTION 4: FIRST-AID MEASURES

- **Inhalation:** Move to fresh air. If symptoms develop or persist, obtain medical attention.

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- **Skin contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water. Obtain medical advice if irritation develops.
- **Eye contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Immediately contact a poison center or physician, particularly for significant ingestion. Never give anything by mouth to an unconscious person.
- **Most important symptoms/effects:** Ingestion may cause nausea, vomiting, dizziness, drowsiness, central nervous system effects, metabolic acidosis and kidney injury. Severe poisoning can be life-threatening.
- **Medical attention / treatment:** Ethylene glycol poisoning requires prompt medical evaluation. Specific antidotal treatment (e.g., fomepizole) and hemodialysis may be indicated under physician/toxicologist direction.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing media appropriate for the surrounding fire: water spray/fog, alcohol-resistant foam, dry chemical, or carbon dioxide.
Unsuitable media	Avoid a direct solid water stream into hot or burning liquid where frothing/spreading may occur.
Specific hazards	Product contains substantial water and is not readily ignited at ambient temperature. Thermal decomposition/combustion may produce carbon monoxide, carbon dioxide, and irritating fumes.
Firefighter protection	Wear positive-pressure self-contained breathing apparatus and full protective clothing when fighting chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal precautions:** Avoid contact with eyes and prolonged skin contact. Avoid breathing mist. Wear appropriate gloves and eye protection. Use caution - spilled material can be slippery.
- **Environmental precautions:** Prevent uncontrolled entry into drains, surface water, soil, and groundwater. Report releases when required.
- **Containment / cleanup:** Stop source if safe. Dike or contain. Recover bulk liquid when practical; absorb residual material with inert absorbent (sand, vermiculite, commercial absorbent). Place in compatible labeled containers for reuse, recycling, or disposal.

SECTION 7: HANDLING AND STORAGE

- **Safe handling:** Avoid ingestion, eye contact, and prolonged or repeated skin contact. Avoid breathing vapor or mist generated by heating or spraying. Wash thoroughly after handling. Do not eat, drink, or smoke in handling areas.
- **Storage:** Keep containers tightly closed and properly labeled. Store in a cool, dry, well-ventilated area away from excessive heat and strong oxidizers. Protect containers from physical damage.
- **Empty containers:** Empty containers may retain product residue. Do not cut, weld, drill, grind, or expose uncleaned containers to heat/flare.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	OSHA PEL	ACGIH TLV	Other guidance
Ethylene glycol	No federal OSHA PEL established	25 ppm TWA vapor; 50 ppm STEL vapor; 10 mg/m ³ TWA inhalable aerosol	Use current occupational exposure guidance applicable to site/jurisdiction
Water	Not established	Not established	Not applicable
Proprietary inhibitors/dye	See supplier data if applicable	See supplier data if applicable	Verify final additive package

- **Engineering controls:** Provide general ventilation. Use local exhaust where heated product, aerosol, or mist may be generated.
- **Eye/face protection:** Safety glasses with side shields for routine handling; chemical splash goggles where splashing is possible.
- **Skin protection:** Chemical-resistant gloves such as nitrile, neoprene, or PVC; protective clothing as needed to prevent prolonged contact.
- **Respiratory protection:** Normally not required with adequate ventilation. If exposure limits may be exceeded, use a NIOSH-approved respirator selected under a written respiratory protection program.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Appearance / color	Green liquid (final production color to be verified)
Odor	Mild / characteristic glycol odor
Odor threshold	Not determined
pH	Slightly alkaline; final production value to be verified by QC

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Melting/freezing point	Expected approximately -34 to -37 °F (-37 to -38 °C) for a conventional 50/50 ethylene glycol coolant; verify by product specification
Initial boiling point/range	Expected approximately 226-229 °F (108-109 °C) at 1 atm for a 50/50 ethylene glycol coolant; verify by product specification
Flash point	> 216 °F (>102 °C), closed cup, typical for comparable 50/50 ethylene glycol coolant; verify if required
Evaporation rate	Not determined
Flammability	Not applicable to liquid; not readily combustible under normal ambient use
Vapor pressure	Not determined for this formulation
Vapor density	Not determined
Relative density	Expected approximately 1.07 at room temperature; verify by product specification
Solubility	Completely miscible with water
Partition coefficient	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined for this formulation

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Normally unreactive under recommended conditions.
Chemical stability	Stable under normal storage and handling conditions.
Possibility of hazardous reactions	Strong oxidizers may react vigorously and generate heat.
Conditions to avoid	Excessive heat, contamination, and incompatible materials.
Incompatible materials	Strong oxidizing agents; strong acids or bases at elevated temperature; materials reactive with hydroxyl compounds.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, and irritating decomposition products under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

- **Likely routes of exposure:** Ingestion, eye/skin contact, and inhalation of mist or heated vapor.
- **Acute effects:** Harmful if swallowed. Inhalation of mist may irritate the nose and throat and may cause headache, dizziness, nausea, or drowsiness. Eye contact may cause transient irritation.
- **Delayed/chronic effects:** Significant or repeated ethylene glycol exposure may affect the kidneys. Developmental toxicity has been observed in laboratory animals at high oral doses.
- **Acute toxicity estimate:** Mixture is classified Acute Toxicity Category 4 (oral) based on ethylene glycol content and representative mixture classification; final classification should be confirmed against the production formula.
- **Carcinogenicity:** Ethylene glycol is not identified as a carcinogen by OSHA, NTP, or IARC. Verify any proprietary additive ingredients separately.

SECTION 12: ECOLOGICAL INFORMATION

- **Ecotoxicity:** Ethylene glycol generally has low acute aquatic toxicity, but large releases may harm aquatic systems through oxygen demand and contamination.
- **Persistence/degradability:** Ethylene glycol is readily biodegradable.
- **Bioaccumulation:** Low bioaccumulation potential is expected for ethylene glycol.
- **Mobility:** Ethylene glycol is highly mobile in soil and water.
- **Other adverse effects:** Avoid uncontrolled environmental release.

SECTION 13: DISPOSAL CONSIDERATIONS

- Reuse or recycle product when feasible. Dispose of waste product, absorbents, and contaminated packaging in accordance with federal, state, provincial, and local requirements. Do not discharge to storm drains, surface water, or soil. Waste classification depends on the condition and contaminants of the material at the time of disposal.

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SECTION 14: TRANSPORT INFORMATION

U.S. DOT	Generally not regulated in packages below the applicable reportable quantity. Ethylene glycol has a CERCLA reportable quantity of 5,000 lb; shipment classification depends on package quantity and formulation.
RQ shipment (when applicable)	UN3082, Environmentally hazardous substance, liquid, n.o.s. (ethylene glycol), Class 9, Packing Group III - verify shipment-specific applicability before offering for transport.
IMDG	Generally not regulated as dangerous goods for typical packaged 50/50 coolant; verify shipment-specific conditions.
IATA	Generally not regulated as dangerous goods for typical packaged 50/50 coolant; verify current carrier requirements.
Marine pollutant	Not expected to meet U.S. DOT marine pollutant criteria based on ethylene glycol alone.
Special precautions	For transportation emergencies, use the emergency response number shown in Section 1 if Avanti is properly registered with that service.

SECTION 15: REGULATORY INFORMATION

- **OSHA Hazard Communication:** This product is considered hazardous under the OSHA Hazard Communication Standard based on the classifications in Section 2.
- **CERCLA:** Ethylene glycol (CAS 107-21-1) has a federal reportable quantity of 5,000 lb. Product-specific reporting thresholds depend on concentration and release amount.
- **SARA Title III Section 313:** Ethylene glycol is subject to Section 313 reporting requirements when applicable thresholds are met.
- **TSCA:** Verify that all final formulation components are listed on or exempt from the TSCA Chemical Substance Inventory.
- **California Proposition 65:** Ethylene glycol (ingested), CAS 107-21-1, is listed by California as causing developmental toxicity. Determine warning obligations based on reasonably anticipated exposure and applicable safe-harbor provisions.

SECTION 16: OTHER INFORMATION

Preparation / revision date	September 5, 2026
Revision	Initial professional redraft from Avanti source SDS; corrected structure to OSHA 16-section format and identified items requiring manufacturer/QC verification.
NFPA 704 (provisional)	Health 2 Flammability 1 Instability 0 - verify against final formulation and facility labeling policy.
Abbreviations	ACGIH = American Conference of Governmental Industrial Hygienists; DOT = U.S. Department of Transportation; GHS = Globally Harmonized System; NIOSH = National Institute for Occupational Safety and Health; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit; STEL = Short-Term Exposure Limit; TLV = Threshold Limit Value.

DISCLAIMER: The information in this draft is believed to be accurate based on the source SDS supplied for Mr. Brands LLC Conventional Green 50/50 Antifreeze/Coolant and generally accepted data for comparable ethylene glycol coolants. The responsible party must verify the actual formulation, additive identities/concentrations, physical properties, hazard classification, transport status, regulatory applicability, and CHEMTREC registration before issuing this SDS as a controlled product document. This SDS does not replace product testing or regulatory review.