



Material Safety Data Sheet

MSDS ID NO.: 0122SPE012
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1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name: Speedway Antifreeze
Synonym: All-Season Antifreeze; Antifreeze & Coolant; All Season Antifreeze
Chemical Family: Ethylene Glycol
Formula: Mixture

Manufacturer:
Speedway LLC
P.O. Box 1500
Enon, OH 45501

Other information: 419-421-3070
Emergency telephone number: 877-627-5463

2. COMPOSITION/INFORMATION ON INGREDIENTS

Antifreeze is a mixture of ethylene glycol and water. May contain some diethylene glycol.

Product information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Speedway Antifreeze	107-21-1	100	100 mg/m ³ Ceiling	= 125 mg/m ³ Ceiling = 50 ppm Ceiling	

Component Information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Ethylene Glycol	107-21-1	090.0000 - 095.0000	100 mg/m ³ Ceiling	= 125 mg/m ³ Ceiling = 50 ppm Ceiling	
Water	7732-18-5	5-10			
Diethylene Glycol	111-46-6	000.0000 - 005.0000			
Silicates (Na ₂ SiO ₃)	NOT PROVIDED	0-0.11			

Notes: The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

THIS PRODUCT IS A NON VOLATILE, BLUE-GREEN COLORED LIQUID WHICH CAN BE HARMFUL OR FATAL IF SWALLOWED. IT WILL IGNITE AND BURN AT ELEVATED TEMPERATURES.

Inhalation:

Prolonged and excessive exposure to vapors may produce headache, respiratory irritation, eye disturbances, central nervous system depression and unconsciousness. Heated or agitated solutions can produce mists or vapors which exceed the exposure limit.

Ingestion:

Liquid ingestion can cause inebriation, headache, incoordination, abdominal pain, nausea and vomiting leading to central nervous system depression. Severe poisoning can cause damage to kidneys, liver, lungs, heart or brain.

Skin contact:

Mildly irritating to the skin upon prolonged and repeated skin contact. Product can be absorbed through the skin.

Eye contact:

May cause irritation upon direct liquid contact. Vapor concentrations above the exposure limit can cause redness, tearing and involuntary eyeball movement (nystagmus).

Carcinogenic Evaluation:

Product information:

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Speedway Antifreeze 107-21-1	NE	male mice-no evidence; female mice-no evidence	A4 - Not Classifiable as a Human Carcinogen	

Notes:

The International Agency for Research on Cancer (IARC) has not evaluated this product.

Component Information:

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Ethylene Glycol 107-21-1		male mice-no evidence; female mice-no evidence	A4 - Not Classifiable as a Human Carcinogen	

4. FIRST AID MEASURES

Eye Contact:

Flush eyes with large amounts of tepid water for at least 15 minutes. If symptoms or irritation occur, call a physician.

Skin Contact:

Wash with soap and large amounts of water. Remove contaminated clothing. If symptoms or irritation occur, call a physician.

Ingestion:

If swallowed, immediately contact a poison control center, emergency treatment center or physician.

Inhalation:

If affected, move person to fresh air. If breathing is difficult, administer oxygen. If not breathing or if no heartbeat, give artificial respiration or cardiopulmonary resuscitation (CPR). Immediately call a physician. If symptoms or irritation occur with any exposure, call a physician.

NOTES TO PHYSICIAN:

No data available.

**Medical Conditions
Aggravated
By Exposure:**

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

For small fires, Class B fire extinguishing media such as CO₂, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

Specific hazards:

This material is not combustible per the OSHA Hazard Communication Standard, but will ignite and burn at elevated temperatures.

Special protective equipment for firefighters:

Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Use water spray to cool exposed surfaces from as far a distance as possible. Keep run-off water out of sewers and water sources.

Flash point:

232-240 F

Autoignition temperature:

750 F

Flammable limits in air - lower (%):

3.2

Flammable limits in air - upper (%):

No data available.

NFPA rating:

Health: 2

Flammability: 1

Instability: 1

Other: -

6. ACCIDENTAL RELEASE MEASURES

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Personal precautions: Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Eliminate all ignition sources. Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Notify local health and pollution control agencies, if appropriate. Contain liquid with sand or soil. Recover and return free product to proper containers. Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids.

7. HANDLING AND STORAGE

Handling:

Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues.

Avoid skin contact. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Engineering measures: Local or general exhaust required in an enclosed area or when there is inadequate ventilation.

Respiratory protection: Not required under normal conditions and adequate ventilation. Approved organic vapor chemical cartridge or supplied air respirators should be worn for exposures to any components exceeding the TWA or STEL. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 1910.134. Self-contained breathing apparatus should be used for fire fighting.

Skin and body protection: Nitrile, nitrile rubber, natural rubber, neoprene, viton or butyl rubber, or PVC gloves for repeated or prolonged skin exposure.

Eye protection: Where splashing is possible, wear chemical splash goggles, safety glasses with side shields, or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Blue-green Liquid
Physical state (Solid/Liquid/Gas):	Liquid
Substance type (Pure/Mixture):	Pure
Color:	Blue-Green
Odor:	Glycol
Molecular weight:	62.07
pH:	Neutral
Boiling point/range (5-95%):	339-398 F
Melting point/range:	Not determined.
Decomposition temperature:	Not applicable.
Specific gravity:	1.12
Density:	9.34 lbs/gal @ 60 F
Bulk density:	No data available.
Vapor density:	2.1
Vapor pressure:	Not determined.
Evaporation rate:	No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Solubility:	Not determined
Solubility in other solvents:	No data available.
Partition coefficient (n-octanol/water):	No data available.
VOC content(%):	No data available.
Viscosity:	No data available.

10. STABILITY AND REACTIVITY

Stability:	The material is stable at 70 F, 760 mm pressure.
Polymerization:	Will not occur.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide and unidentified organic compounds.
Materials to avoid:	Strong oxidizers such as nitrates, chlorates, peroxides. Strong mineral acids such as oleum (sulfuric) and perchloric acid. Ignition has occurred following contact of aqueous ethylene glycol to dc-energized silvered copper wires.
Conditions to avoid:	Difficult to ignite, but will burn. Heat and open flames.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Product information:

Name	CAS Number	Inhalation:	Dermal:	Oral:
Speedway Antifreeze	107-21-1	No data available	No data available	No data available

Toxicology Information:

Ethylene glycol (EG) produced fetal malformations in the offspring of pregnant rats and mice when administered oral doses of 750-1,250 mg/kg/day that caused maternal toxicity throughout the gestation period. Monkeys and rats fed high levels of ethylene glycol in the diet for exposure periods over 90 days experienced kidney injury. No evidence of carcinogenicity was observed in mice and rats fed EG in the diet at dose levels of >6,250 and 10,000 ppm, respectively, in a two year cancer bioassay.

12. ECOTOXICOLOGICAL INFORMATION

Mobility:

No data available.

Ecotoxicity:

No data available.

Bioaccumulation:

No data available.

Persistence/Biodegradation:

Product readily biodegrades in water and does not concentrate in the food chain.

The 24 hour LC50 for goldfish is >5,000 ppm.

The 96 hour LC50 for rainbow trout is 18,500-41,000 ppm.

The 48 hour LC50 for brown shrimp in saltwater is >100 ppm.

13. DISPOSAL CONSIDERATIONS

Cleanup Considerations:

This material as supplied and by itself, when discarded or disposed of, is not an EPA RCRA hazardous waste according to federal regulations. This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Don't pollute. Conserve resources. Send used product to recycling center. Dispose of cleanup materials in accordance with applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

49 CFR 172.101:

DOT:

Transport Information: This material when transported via US commerce is NOT REGULATED by DOT regulations.

Packing group: Not applicable.

DOT reportable quantity (lbs): Not applicable.

15. REGULATORY INFORMATION

US Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA Chemical Inventory.

OSHA Hazard Communication Standard:

This product has been evaluated and determined to be hazardous as defined in OSHA's Hazard Communication Standard.

EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302: This product contains the following component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Ethylene Glycol	NA
Water	NA
Diethylene Glycol	NA
Silicates (Na ₂ SiO ₃)	NA

SARA Section 304: This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Ethylene Glycol	= 2270 kg final RQ = 5000 lb final RQ
Water	NA
Diethylene Glycol	NA
Silicates (Na ₂ SiO ₃)	NA

SARA Section 311/312 The following EPA hazard categories apply to this product:

Acute Health Hazard

SARA Section 313: This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

Name	CERCLA/SARA 313 Emission reporting:
Ethylene Glycol	= 1.0 % de minimis concentration
Water	None
Diethylene Glycol	None
Silicates (Na ₂ SiO ₃)	None

State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

Ethylene Glycol

- Louisiana Right-To-Know: Not Listed
- California Proposition 65: Not Listed
- New Jersey Right-To-Know: sn 0878
- Pennsylvania Right-To-Know: Environmental hazard
- Massachusetts Right-To Know: Present
- Florida substance List: Not Listed.
- Rhode Island Right-To-Know: Toxic; Flammable
- Michigan critical materials register list: Not Listed.
- Massachusetts Extraordinarily Hazardous Substances: Not Listed
- California - Regulated Carcinogens: Not Listed
- Pennsylvania RTK - Special Hazardous Substances: Not Listed

Ethylene Glycol

New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	SN 0878 TPQ 500 lb
Illinois - Toxic Air Contaminants	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	= 1 lb RQ air = 1 lb RQ land/water

Water

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Diethylene Glycol

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Flammable
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Silicates (Na₂SiO₃)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed

Ethylene Glycol

Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Canadian Regulatory Information:

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Ethylene Glycol	D2A	1 %
Water	Uncontrolled product according to WHMIS classification criteria	

NOTE: Not Applicable.

16. OTHER INFORMATION

Additional Information: No data available.

Prepared by: Mark S. Swanson, Manager, Toxicology and Product Safety

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End of Safety Data Sheet