

Material Safety Data Sheet

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Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

SUPER TECH

Product Name SUPER TECH

Recommended Use Antifreeze.

Supplier Address

Old World Industries
4065 Commercial Ave
Northbrook

IL
60062
US

Phone:847-559-2284

Fax:847-559-2063

Contact:David Walters

Email:dwalters@oldworldind.com

Contact Phone847-559-2053

Distributor

Wal-Mart Stores Incorporated
Bentonville, AR USA 72716

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

May cause skin, eye, and respiratory tract irritation

Harmful if absorbed through skin

Harmful if swallowed

May cause central nervous system depression

Appearance Light yellow

Physical State Liquid.

Odor Mild

Potential Health Effects

Principle Routes of Exposure

Eye contact. Skin contact. Inhalation.

Acute Toxicity

Eyes

May cause irritation.

Skin

May cause irritation. Harmful if absorbed through skin.

Inhalation

May be harmful if inhaled. May cause irritation.

Ingestion

Harmful if swallowed.

Chronic Effects

No known effect based on information supplied.

Aggravated Medical Conditions

Central nervous system. Pre-existing eye disorders. Skin disorders. Respiratory disorders. Cardiovascular. Liver disorders. Kidney disorders.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard

See Section 12 for additional Ecological Information. Toxic to fauna Toxic to bees

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Ethylene glycol	107-21-1	90-97
Diethylene glycol	111-46-6	0 - 2.5
Proprietary sterile, aqueous, isotonic solution	N/A	0 - 2.5

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician.
Inhalation	Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Consult a physician.
Ingestion	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.
Notes to Physician	Treat symptomatically.
Protection of First-aiders	Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.
Flash Point	121C / 249F
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Uniform Fire Code	• Combustible Liquid: III-B
Hazardous Combustion Products	Carbon oxides.
Explosion Data	
Sensitivity to Mechanical Impact	No.
Sensitivity to Static Discharge	No.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health Hazard 2	Flammability 1	Stability 0	Physical and Chemical Hazards -
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists Ensure adequate ventilation.
Environmental Precautions	Refer to protective measures listed in Sections 7 and 8.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.
Storage	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene glycol 107-21-1	Ceiling: 100 mg/m ³ aerosol only	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m ³	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).
Engineering Measures	Showers Eyewash stations Ventilation systems
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles.
Skin and Body Protection	Protective gloves.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light yellow.	Odor	Mild.
Odor Threshold	No information available	Physical State	Liquid
pH	8		
Flash Point	249F / 121C	Autoignition Temperature	No information available
Decomposition Temperature	No information available	Boiling Point/Range	176°C / 349°F
Melting Point/Range	-15°C / 5°F		
Flammability Limits in Air	No information available	Explosion Limits	No information available
Water Solubility	Miscible with water	Solubility	No information available
Evaporation Rate	No information available	Vapor Pressure	No data available
Vapor Density	No data available	VOC Content (%)	97.5
Partition Coefficient: n-octanol/water	-1.36		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Strong oxidizing agents. Strong acids. Strong bases. Aldehydes. Aluminium.
Conditions to Avoid	None known.
Hazardous Decomposition Products	Carbon oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene glycol	1650 mg/kg (cat) 4000 mg/kg (Rat)	= 9530 µL/kg (Rabbit)	-
Diethylene glycol	= 12565 mg/kg (Rat)	= 11890 mg/kg (Rabbit)	-

Chronic Toxicity

Chronic Toxicity	No known effect based on information supplied.
Target Organ Effects	Central nervous system (CNS). Eyes. Respiratory system. Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated. Toxic to fauna Toxic to bees

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethylene glycol	EC50: 6500 - 13000 mg/L (96 h) <i>Pseudokirchneriella subcapitata</i>	LC50: 16000 mg/L (96 h static) <i>Poecilia reticulata</i> LC50: 14 - 18 mL/L (96 h static) <i>Oncorhynchus mykiss</i> LC50: 27540 mg/L (96 h static) <i>Lepomis macrochirus</i> LC50: 41000 mg/L (96 h) <i>Oncorhynchus mykiss</i> LC50: 40000 - 60000 mg/L (96 h static) <i>Pimephales promelas</i> LC50: 40761 mg/L (96 h static) <i>Oncorhynchus mykiss</i>	EC50 = 10000 mg/L 16 h EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min	EC50: 46300 mg/L (48 h) <i>Daphnia magna</i>
Diethylene glycol		LC50: 75200 mg/L (96 h flow-through) <i>Pimephales promelas</i>	EC50 = 29228 mg/L 15 min	EC50: 84000 mg/L (48 h) <i>Daphnia magna</i>

Chemical Name	Log Pow
Ethylene glycol	-1.93
Diethylene glycol	-1.98

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of in accordance with local regulations.

California Hazardous Waste Codes 331

Chemical Name	California EHW	California Carc	California Hazardous Waste	California Waste - Part 2
Ethylene glycol				Recyclable Hazardous Wastes

14. TRANSPORT INFORMATION

DOT NOT REGULATED (IF SHIPPED IN NON BULK PACKAGING BY GROUND TRANSPORT)

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

International Inventories

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Ethylene glycol	107-21-1	90-97	1.0

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depleters	Class 2 Ozone Depleters
Ethylene glycol	107-21-1	90-97		Group I		
Diethylene glycol	111-46-6	0 - 2.5		Group I		

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ethylene glycol	5000 lb	

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethylene glycol	X	X	X	X	X
Diethylene glycol			X		

Mexico - Grade Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
Ethylene glycol		Mexico: Ceiling 100 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D1B Toxic materials

D2A Very toxic materials



Chemical Name	NPRI
Ethylene glycol	X

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

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Revision Note No information available

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet