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Super S Prediluted 50/50 Antifreeze & Coolant MSDS# 65282S Version 2.0 Effective Date 06/18/2009 According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Material Safety Data Sheet

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name Uses	Super S Prediluted 50/50 Antifreeze & Coolant Antifreeze and coolant.
Manufacturer/Supplier	: Smitty's Supply, inc. PO Box 530 Roseland, LA 70456 USA
MSDS Request	: 985-748-9687
Emergency Telephone Nur CHEMTREC	nber : 800-424-9300 - toll free in the U.S., Canada, and U.S. Virgin Islands. 703-527-3887 - for calls originating elsewhere. (Collect calls accepted)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS No.	Concentration
Ethanediol	107-21-1	30.00 - 60.00 %

Mixture of ethylene glycol, water and additives.

3. HAZARDS IDENTIFICATION

Appearance and Odour	Emergency Overview : May be dyed. Liquid at room temperature. Characteristic.
Health Hazards	 Harmful or fatal if swallowed. May cause acidosis, cardiopulmonary and kidney effects.
Environmental Hazards	: May cause long-term adverse effects in the aquatic environment.
Health Hazards	
Inhalation	: Slightly irritating to respiratory system.
Skin Contact	: May cause moderate irritation to skin.
Eye Contact	: Moderately irritating to eyes.
Ingestion	 Harmful if swallowed.May cause acidosis, cardiopulmonary and kidney effects.Ingestion may cause drowsiness and dizziness.
Other Information	 Possibility of organ or organ system damage from prolonged exposure; see Chapter 11 for details. Target organ(s): Kidney. Lungs Cardiovascular system.
	Intentional abuse, misuse or other massive exposure may cause multiple organ damage and or death.
Signs and Symptoms	Kidney toxicity may be recognized by blood in the urine or increased or decreased urine flow. Other signs and symptoms can include nausea, vomiting, abdominal cramps, diarrhoea, lumbar pain shortly after ingestion, and possibly narcosis and

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	death. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued exposure may result in unconsciousness and/or death.
Aggravated Medical Condition	Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Kidney. Cardiovascular system.
Environmental Hazards Additional Information	 Not classified as dangerous for the environment. Under normal conditions of use or in a foreseeable emergency, this product meets the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
4. FIRST AID MEASURES	
General Information	 DO NOT DELAY. Keep victim calm. Obtain medical treatment immediately.
Inhalation	 Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
Skin Contact	Remove contaminated clothing. Flush exposed area with water and follow by washing with scap if available. If persistent irritation occurs, obtain medical attention.
Eye Contact	 Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
Ingestion	DO NOT DELAY. If swallowed, do not induce vomiting; transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
Advice to Physician	IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT! The preferred treatment is immediate transportation to a medical facility and use of appropriate treatment including possible administration of activated charcoal, gastric lavage and or gastric aspiration. If none of the above are immediately available and a delay of more than one hour is anticipated before such medical attention can be obtained, induction of vomiting may be appropriate using IPECAC syrup (Contraindicated if there are any signs of CNS depression). This should be considered on a case by case basis following specialist advice. Specific other treatments include may include ethanol therapy, fomepizole, treatment of acidosis and haemodialysis. Seek specialist advice without delay.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point	:	Typical 130 °C / 266 °F (Pensky-Martens Closed Cup)
Upper / lower		3 - 15 %(V)
Flammability or		
Explosion limits		
Auto ignition temperature	:	> 200 °C / 392 °F
Specific Hazards	t	Hazardous combustion products may include: A complex

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Suitable Extinguishing	 mixture of airborne solid and liquid particulates and gases
Media	(smoke). Carbon monoxide. Unidentified organic and inorganic
Unsultable Extinguishing	compounds. Foam, water spray or fog. Dry chemical powder, carbon
Media	dioxide, sand or earth may be used for small fires only. Do not use water in a jet.
Protective Equipment for	Proper protective equipment including breathing apparatus
Firefighters	must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe all relevant local and international regulations.

Protective measures Clean Up Methods	 Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
	For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
Additional Advice	 U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity (refer to Chapter 15) to the National Response Centre at (800) 424- 8802. Local authorities should be advised if significant spillages cannot be contained.
7. HANDLING AND STORAGE	
General Precautions	: Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Handling	 Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

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Storage :	Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: $0 - 50 \degree C / 32 - 122 \degree F$

Recommended Materials	:	For containers or container linings, use mild steel or high density polyethylene.
Unsuitable Materials Additional Information		Zinc. Avoid contact with galvanized materials. Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Material	Source	Туре	ppm	mg/m3	Notation
Ethanediol	ACGIH	Ceiling(Aeros		100 mg/m3	
		ol.)			
Ethanediol	OSHA Z1A	Ceiling	50 ppm	125 mg/m3	

Exposure Controls	: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.
Personal Protective Equipment	: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.
Respiratory Protection	 No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respirators are suitable, select a appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C(149 °F)].
Hand Protection	: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

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	Application of a non-perfumed moisturizer is recommended.
Eye Protection	 Wear safety glasses or full face shield if splashes are likely to occur.
Protective Clothing	 Skin protection not ordinarily required beyond standard issue work clothes.
Monitoring Methods	: Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.
Environmental Exposure Controls	 Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.
PHYSICAL AND CHEMICAL	PROPERTIES
Appearance	: May be dyed, Liquid at room temperature.
Odour :	Characteristic.
pH :	Not applicable.
Initial Boiling Point and Boiling Range	: > 100 °C / 212 °F estimated value(s)
Freezing Point	: Typical -30 °C / -22 °F
Flash point	: Typical 130 °C / 266 °F (Pensky-Martens Closed Cup)
Upper / lower Flammability or Explosion limits	: 3 - 15 %(V)
Auto-ignition temperature	: > 200 °C / 392 °F
Vapour pressure	: Data not available
	: Typical 1.1 at 15 °C / 59 °F
Specific gravity	41
	Typical 909 g/cm3 at 15 °C / 59 °F
Specific gravity Density : Water solubility	Typical 909 g/cm3 at 15 °C / 59 °F Completely Soluble.
Specific gravity Density : Water solubility n-octanol/water partition coefficient (log Pow)	Typical 909 g/cm3 at 15 °C / 59 °F Completely Soluble. Data not available
Specific gravity Density : Water solubility n-octanol/water partition coefficient (log Pow) Kinematic viscosity	Typical 909 g/cm3 at 15 °C / 59 °F Completely Soluble. Data not available Typical 30 mm2/s at 40 °C / 104 °F
Specific gravity Density : Water solubility n-octanol/water partition coefficient (log Pow)	Typical 909 g/cm3 at 15 °C / 59 °F Completely Soluble. Data not available

Stability	:	Stable.
Conditions to Avoid	:	Extremes of temperature and direct sunlight.
Materials to Avoid	:	Strong oxidizing agents.
Hazardous Decomposition	:	Hazardous decomposition products are not expected to form
Products		during normal storage.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment	:	Information given is based on data on the components and the toxicology of similar products.
Acute Oral Toxicity	:	Classified as harmful by the European Commission. There is a marked difference in acute oral toxicity between rodents and man, man being more susceptible than rodents. The estimated

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Acute Dermal Toxicity : Skin Irritation : Eye Irritation : Respiratory Irritation : Sensitisation : Repeated Dose Toxicity : Mutagenicity : Carcinogenicity :	fatal dose for man is 100 millilitres (1/2 cup). This material has also been shown to be toxic and potentially lethal by ingestion to cats and dogs. Ingestion may cause drowsiness and dizziness. Expected to be of low toxicity: LD50 >2000 mg/kg , Rabbit May cause moderate skin irritation (but insufficient to classify). Moderately irritating to eyes (but insufficient to classify). Inhalation of vapours or mists may cause irritation. Not expected to be a skin sensitiser. Kidney: can cause kidney damage. Not considered a mutagenic hazard. Components are not known to be associated with carcinogenic effects.
Material	Carcinogenicity Classification
Ethanediol :	ACGIH Group A4: Not classifiable as a human carcinogen.
Sodium molybdate :	ACGIH Group A3: Confirmed animal carcinogen with unknown relevance to humans.
Reproductive and : Developmental Toxicity	Causes foetotoxicity in animals; considered to be secondary to maternal toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity) ;	Expected to be practically non toxic: LC/EC/IC50 > 100 mg/l (to aquatic organisms)
Mobility	:	Dissolves in water. If product enters soil, it will be highly mobile and may contaminate groundwater.
Persistence/degradability	;	Readily biodegradable.
Bioaccumulation	:	Not expected to bioaccumulate significantly.
Other Adverse Effects		Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

13. DISPOSAL CONSIDERATIONS

Material Disposal	: Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
Container Disposal	 Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
Local Legislation	 Disposal should be in accordance with applicable regional, national, and local laws and regulations.

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14. TRANSPORT INFORMATION

US Department of Transportation Classification (49CFR) This material is not subject to DOT regulations under 49 CFR Parts 171-180.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply) This material is not classified as dangerous under IATA regulations.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status

Notification Status

TSCA	All components listed.
EINECS	All components listed.
DSL	All components listed.

Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)

Super S Prediluted 50/50 Antifreeze & Coolant Reportable quantity: 10937 lbs

Ethanediol (107-21-1)

Reportable quantity: 5000 lbs

SARA Hazard Categories (311/312) Immediate (Acute) Health Hazard.

SARA Toxic Release Inventory (TRI) (313)

Ethanediol (107-21-1) 45.717%

State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This product contains a chemical known to the State of California to cause cancer.

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New Jersey Right-To-Know Chemical List

Ethanediol (107-21-1)

Listed.

Pennsylvannia Right-To-Know Chemical List

Ethanediol (107-21-1)

Environmental hazard. Listed.

16. OTHER INFORMATION

NFPA Rating (Health, Fire, Reactivity) MSDS Version Number		2, 1, 0 2.0
MSDS Effective Date	:	06/18/2009
MSDS Revisions	:	A vertical bar () in the left margin indicates an amendment from the previous version.
MSDS Regulation		The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
MSDS Distribution	:	The information in this document should be made available to all who may handle the product.
Disclaimer	:	The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

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