

Material Safety Data Sheet (MSDS)

Section 1: Identification

Product Identifier: Anti-freeze 50/50 Premix

Product Description: Mono Ethylene Glycol and Corrosion Inhibitors

Company Identifier: SPEC OIL Anti-freeze 50/50 Premix

Internal Identification: BS/6503/099

Identified uses: Concentrated antifreeze solution

Section 2: Hazards Identification

Hazardous Designation: Hazardous according to OSHA 29 CFR 1910.1200

Physical & Chemical Hazards: May cause damage to kidneys through prolonged use or repeated

exposure.

Human Health: Harmful when swallowed

Environment: N/D

Hazardous Ingredients: Mono Ethylene Glycol

Precautionary Statements

General: Read label before use. Keep out of reach of children.

Note: This product should not be used for any other purpose than the intended

use described in Section 1 without expert advice.

N/D - Not Determined



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Section 3: Composition/Information on Ingredients

Composition: Mixture

Ingredient Name: Mono Ethylene Glycol

CAS #: 107-21-1 **Percentage:** 50%

Classification: Harmful

Ingredient Name: Corrosion Inhibitors

CAS #: 64742-01-4

Percentage: 5%

Classification: Not Classified

Ingredient Name: Water
CAS #: N/A
Percentage: 45%

Classification: Not Classified

Section 4: First Aid Measures

General Information: Seek medical attention if any discomfort continues.

Inhalation: Remove from further exposure. For those providing assistance avoid

exposure to yourself or others.

Skin Contact: Remove contaminated clothing. Wash skin thoroughly with soap and

water or use a proprietary skin cleaner. Do not use solvents orthinners.

Eye Contact: Contact lenses should be removed. Flush with clean, fresh water for at

least 10 minutes while holding eyelids apart. Seek medical advice.

Ingestion: Seek immediate medical attention. Contact the nearest poison control

centre or go to the emergency department. Do not induce vomiting.

Section 5: Fire Fighting Measures

Fire Fighting Instructions: Evacuate the area through the closest exit points and gather at the

nearest assembly point indicated by the Assembly Point sign. No action

shall be taken involving the personal risk of employees.

Appropriate Extinguishing Methods: Use water fog, foam or carbon dioxide (CO2). Water or foam may cause

frothing.

Unsuitable Extinguishing Method: Do not use water jets as an extinguisher as this will spread the fire.

Special Hazards Arising from the Mixture

Hazardous Combustion Products: Smoke, Fumes, Carbon Oxides and incomplete combustion products.

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Explosion Hazards: This material will burn although it is not easily ignited. No explosion

hazards noted.

Protective Clothing: Fire fighters should wear appropriate equipment and self-contained

breathing apparatus (SCBA) with a full face-piece.

Environmental Precautions: Prevent run-off from fire control or dilution from entering drains.

Secondary Disaster Prevention: Heat from the fire can cause the surrounding objects (drums, bottles,

etc.) to heat up and possibly result in bursting. If possible remove surrounding objects that may be affected by the heat of the fire.

Section 6: Accidental Release Measures

Environmental Precautions: The product cannot be disposed of through the process of biodegrading.

Contain the spillage with sand or oil booms. The product is insoluble in water and will spread on the water's surface, therefore ensure to avoid

drains. Prevent spill from entering drains and water sources.

Personal Precautions: Keep unnecessary and unprotected personnel from entering the area. Do

not touch or walk through the spillage. Be aware of slippery floors and surfaces. Remove all sources of ignition in the vicinity of the spill.

Methods & Materials for Containment & Cleaning Up:

a. When dealing with a spillage first contain the spillage with sand or oil booms.

b. Place dust masks on.

c. Throw peat absorbent (non-combustible) over the contained spillage. Ensure all the product is absorbed.

d. Using the spark proof spade shovel the contaminated absorbent into the heavy duty recovery bags.

e. Once a bag is full seal it with the bag ties and place in the dedicated wheelie drum.

f. Clean the surface with a detergent, avoid the use of solvents.

Refer to section 13 for Disposal

Section 7: Handling and Storage

Precautions for Safe Handling: Avoid spills. Do not use contaminated clothing or shoes. Do not ingest or

inhale the vapour of the product. Use only with adequate ventilation or wear an appropriate respirator when ventilation is inadequate. Keep out

of reach of children.

Storage and Incompatibilities: Store away from direct sunlight in a dry, cool well ventilated area. Keep

the container tightly sealed and upright. Containers that have already



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been opened must be carefully resealed and kept upright to prevent leakage. Keep away from incompatibilities such as oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Exposure Limits: OSHA STEL 127 mg/m³

Hand Protection: The correct choice of gloves should be chosen in consultation with the

supplier after a full assessment of the working conditions has been

completed.

Eye Protection: Avoid contact with eyes. Safety googles with side shields are

recommended.

Skin & Body Protection: Avoid contact with skin and clothing. Wear suitable hydrocarbon-proof

protective clothing and safety boots.

Respiratory Protection: Use in an adequately ventilated space. Respiratory protection must be

used if the airborne contamination exceeds the recommended

occupational exposure limit.

General Protection: Barrier creams are not suitable for physical protection.

Section 9: Physical and Chemical Properties

Form: Liquid

Colour: Fluorescent

Odour: None
Odour Threshold: N/D

Flash Point: > 110°C

Vapour Pressure: N/A

Density @ 25°C 1.11 (kg/l)

Viscosity @ 40°C N/D

PH 7.0 to 7.3

Lower Explosion Limit: N/A
Upper Explosion Limit: N/A

Solubility:

Initial Boiling Point & Range: >165°C

Auto-ignition Temperature: >200°C

Explosive Properties: Not considered to be explosive. Stable under normal conditions.

Soluble

N/D

Partition Coefficient: N/A

Decomposition Temperature:



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Other Flammability: The product is not flammable but on excessive heating may become

combustible.

N/A – Not Applicable N/D – Not Determined

Section 10: Stability and Reactivity

Stability: The product is stable if handled and stored as described in Section 7.

Chemical Stability: Stable at ambient temperatures and when used as recommend in Section

1.

Possibility of Hazardous Reactions: Reaction with strong oxides will generate heat.

Conditions to Avoid: Avoid heat, flames and possible sources of ignition.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides,

smoke and other toxic gases and vapours. Under normal conditions of storage and use hazardous decomposition products should not be

produced.

Section 11: Toxicological Information

Acute Toxicity (Ingested): May cause abdominal discomfort or pain, nausea, vomiting, dizziness,

drowsiness, malaise, blurring of vision, irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects, including

irregular eye movements, convulsions and coma

Acute Toxicity (Skin): No evidence of adverse effects.

Acute Toxicity (Inhalation): May cause irritation of the nose and throat with headache, particularly

from the mist.

Eye Damage/Irritation: May cause mild discomfort to eyes for a short period.

Respiratory Sensitization: Repeated exposure to mist and vapour may cause respiratory damage.

Skin Sensitization: Not expected to be a skin sensitization.

Reproductive Toxicity: N/D

Inhalation: May case respiratory system irritation.

Ingestion: May result in a chemically induced pneumonia.

Skin Contact: Skin irritation should not occur if used as recommended. Repeated

exposure may cause skin dryness or cracking.

Eye Contact: May cause temporary eye irritation.

Carcinogenicity: No know significant effects or critical hazards.

N/D – Not Determined

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Section 12: Ecological Information

Eco-toxicity: The product is not expected to be hazardous to the environment.

Persistence & Degradability: The product is biodegradable.

Bio-accumulative Potential: N/D

Mobility in Soil: Highly mobile in soil.

Other Adverse Effects: N/D

N/D - Not Determined

Section 13: Disposal Considerations

General Information: When handling waste the same safety precautions apply as to when

handling the product.

Disposal Methods: Recover or recycle if possible. Waste including recovery duty bags and

containers should be disposed of in accordance to the current applicable local laws and regulations, and the product characteristics at the time of

disposal has to be taken into account. Do not dispose into the

environment, drains or water courses. Dispose waste and non-recyclable

products via a licensed waste disposal contractor.

Section 14: Transport Information

Marine Transport:IMDG/GGVSee: Not classifiedUN-NO: 9Air Transport:ICAO/IATA: N/AUN-NO: 9

Road/Rail Transport: ADR/RID-GGVS-GGVE

(ADR/GGVS, RID/GGVE): Not classified as dangerous goods for transport.

N/A – Not Applicable

Section 15: Regulatory Information

Labelling: Harmful

Safety, Health and Environmental Regulations/Legislation for the Mixture:

Occupational Health and Safety Act 1993 Regulations for Hazardous Chemical Substances.

National Road Traffic Act, 1996 (Act 93 of 1996)

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail

modes.

National Environmental Management: Waste Act 59 of 2008 Chemical Safety Assessment carried outs: Not carried out.



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Section 16: Other Information

General Information: Only trained personnel should use this material.

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Distribution: The information should be made available to all who handle the product.

Disclaimer: This information is based on our current knowledge and is intended to

describe the product for purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing

any specific property of the product.