SAFETY DATA SHEET

CHALLENGER ANTI-FREEZE COOLANT 100

Section 1. Identification

Material name: CHALLENGER ANTI-FREEZE COOLANT 100
Product Code 580243
SDS no. SDS 580243-1

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/ mixture Engine coolant
For specific application advice see appropriate Technical Data Sheet or consult our company representative

Manufacturer Supplier
Technolube L.L.C
P.O.BOX: 116636, Techno Park,
Dubai, United Arab Emirates
www.technolubeuae.com
Tel: +971 4 801 8444
Fax: +971 4 886 7014

Emergency Telephone Number
Technical Services Department
Telephone: +966 12 215 7000

Section 2. Hazard(s) identification

Classification of the substance or mixture Harmful if swallowed

GHS label elements:

Hazard Pictograms:

Signal word: Warning

Hazard statement: Harmful if swallowed.

Precautionary statement:

Prevention: Wash with plenty of water and soap thoroughly after handling.

Response: Call a POISON CENTER or doctor/physician.
IF SWALLOWED: rinse mouth.

Storage: Store locked up.

Disposal: Dispose of contents/container to hazardous or special waste collection point.

Other hazards which do not result in classification No specific dangers known, if the regulations/notes for storage and handling are considered.

Section 3. Composition and ingredient information

Substance/ mixture Mixture

Components	CAS No.	Percent
Monoethyleneglycol	107-21-1	94%
Distilled Water	Mixture	5%
Performance Additives	Mixture	1%

Section 4. First aid measures

Description of necessary first aid measures

Eye contact May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Skin contact May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

Inhalation Harmful by inhalation. Inhalation may cause nausea and vomiting. May cause dizziness and headache. Move the exposed person to fresh air. Seek medical attention.

Ingestion Harmful if swallowed. Ingestion may cause nausea and vomiting. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.

Special Risks None

Special Measures Self-contained breathing apparatus. Wear protective clothing

Section 6. Accidental release measure

Precautions for the Environment Do not allow product to enter drains. Prevent further spillage if safe.

Clean-up Method Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

Personal Precautions Ensure adequate ventilation of the working area. Wear suitable protective equipment.

Personal Protection Gloves and goggles or face shield

Section 7. Handling and storage

Precautions for safe handling	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
Specific conditions	Safety goggles and gloves should be used
Precautions for safe storage	None
Storage condition	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.
Dangerous practices	Not available

Section 8. Exposure control/ Personal protection

Control parameters:

Exposure Level	Not available
Inhalation	No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL). Wear full face mask supplied with: Gas cartridge (organic substances).
Skin	Gloves
Eye	Safety goggles

Other	Showers and eye-washers in the working area
Specific Hygiene measure	Good work practices to minimize exposure and adoption of good Personal hygien
Exposure Level	TLV (typical base oil) = 0.016 PPM at 20ºC (saturated vapor Concentration); TLV/TWA (ACGIH) = 5mg/m3 (oil mist); TLV/STEL (ACGIH) = 10mg/m3 (oil mist)

Section 9. Physical and chemical properties

Information on basic physical and chemical propertie

Appearance:

Physical state:	Liquid
Color:	Red
Specific Gravity (at 15ºC):	1.116 g/cm3
Equilibrium Boiling Point	170 ºC
Explosive Properties:	Not available
Oxidizing Properties:	Not available
Freezing Point:	-13 ºC
pH value	Not available
Solubility in Water	Soluble

Section 10. Stability and reactivity

Reactivity	Stable under recommended transport storage conditions
Chemical stability	Stable under normal temperature pressures
Polymerization Risk	Not available
Materials to Avoid	Strong oxidants react with oils and organic materials
Hazardous Decomposition products	Not available
Condition to Avoid	Exposure to open flames

Section 11. Toxicological information

Routes of Exposure	Contact with skin, eyes and inhalation. Ingestion is not frequent.
Acute and chronic Effects	No malignant acute effects are known. Chronic effects due to repeated exposures are irritation, dermatitis and acne
Carcinogenicity	Not available
Reproductive Toxicity	No evidences
Medical Conditions which increase Hazard to Exposure	Respiratory tract deficiencies and dermatological problems

Section 12. Ecological information

Pollutant Potential:

Persistence and Degradability	Elimination information: > 70 % DOC reduction (28 d) (OECD 301 A (new version)) Readily
Mobility/Bioaccumulative Potential	Bioaccumulation potential: Accumulation in organisms is not to be expected. Volatility: The substance will not evaporate into the atmosphere from the water surface. Adsorption in soil: Adsorption to solid soil phase is not expected.
Eco toxicological Effect:	Dangerous for aquatic life in high concentrations (spills).

Section 13. Disposal consideration

Disposal Methods (surplus)	Must be disposed of or incinerated in accordance with local regulations
Disposal (waste)	Only in specific prepared and controlled areas. Avoid releasing oils to sewers because they can destroy water treatment plant Microorganisms. Do not attempt to clean containers since residue is difficult to remove; dispose in a safe way.
Handling (waste)	Labeled and sealed containers. Avoid direct contact with waste oils.

Section 14. Transport information

Special Precautions	Stable at room temperature and during transport. Store in cool well ventilated areas.
UN Number	Not regulated
Road (ADR)/ Rail (RID) /River (ADNR)	Not regulated
Airline (IATA-ACAO)	Not regulated
Marine (IMO-IMDG)	Not regulated
Special precautions for user	Not available

Section 15. Regulatory information

Regulation	**CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):** This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.
CERCLA/SARA - Section 311/312 (Title III Hazard Categories)	**Acute Health:** No **Chronic Health:** No **Fire Hazard:** No **Pressure Hazard:** No **Reactive Hazard:** No
CERCLA/SARA - Section 313 and 40 CFR 372	This material does not contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372
EPA (CERCLA) Reportable Quantity (in pounds)	This material does not contain any chemicals with CERCLA Reportable Quantities
California Proposition 65	This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65
Canadian	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 Regulations. WHMIS Hazard Class: None
National Chemical Inventories	All components are either listed on the US TSCA Inventory, or are not regulated under TSCA. All components are either on the DSL, or are exempt from DSL listing requirements
U.S. Export Control Classification Number	EAR99

Section 16. Other information

History:

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Guide to Abbreviations

CAS	Chemical Abstracts Service
ACGIH	American Conference of Governmental Industrial Hygienists
CASRN	Chemical Abstracts Service Registry Number
CEILING	Ceiling Limit (15 minutes)
CERCLA	The Comprehensive Environmental Response, Compensation, and Liability Act
EPA	Environmental Protection Agency
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
NE	Not Established
NFPA	National Fire Protection Association
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit (OSHA)
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit (15 minutes)
TLV	Threshold Limit Value (ACGIH)
TWA	Time Weighted Average (8 hours)
UEL	Upper Explosive Limit
WHMIS	Worker Hazardous Materials Information System (Canada)

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