

## Material Safety Data Sheet

### 1. CHEMICAL AND MANUFACTURER INFORMATION



Product Name	: <b>GOODYEAR POLAR ANTIFREEZE COOLANT 40%</b>		
Manufacturer Name	: Emarat (Emirates General Petroleum Corporation)		
Manufacturer Address:	: P O Box 9400, DUBAI, UAE		
Emergency Telephone Number	: + 971-4-3434444	Fax Number	: + 971-4-3433393

### 2. HAZARDS IDENTIFICATION



Classification of hazardous substances:	: Not classified as Hazardous according to the criteria of Dangerous Goods.
Label content:	:
1. Symbol	:
2. Warning	:
3. Hazard warning message	: The extent of the damage depends on the length of the contact time, the amount of exposure and the speed of first aid and the thoroughness of treatment <ul style="list-style-type: none"> <li>• Eyes: may cause irritation to eyes</li> <li>• Skin: cause discomfort to skin</li> <li>• Swallowing may be harmful</li> </ul>
4. Precautionary statements:	: If there is contact with eyes, immediately rinse with water and consult medical care; if there is contact with skin, immediately rinse with water, if you still feel discomfort, consult medical advice.
Other hazards	: No component is present at sufficient concentration to require a hazardous classification

### 3. COMPOSITION/INFORMATION ON INGREDIENTS



Mixture	Ethylene glycol (ethane-1,2-diol). Corrosion inhibitors	
Chemical material		
English name of Hazardous Substance	<i>Concentration or Concentration Ranges</i> (% of contents)	Classification and Labeling of Hazardous Substances: none
Ethylene glycol (ethane-1,2-diol) - CAS No. 1071-21-, EINECS No. 2033-473-, Xn, R22 (>90%)		

### 4. FIRST AID MEASURES



First-aid measures for different exposure routes:

● Inhalation:

Under normal operation, it is not expected to cause harm to human body due to inhalation.

● Skin Contact:

Under normal operation, it is not expected to cause harm to human body due to inhalation.

● Eye Contact:

Immediately rinse with water for more than 20 minutes. If there is redness and swelling, immediately get medical attention.

● Ingestion:

If the patient has spontaneous vomiting, seek immediate medical attention.

The most important symptoms and harmful effects

:

Protection against first-aid personnel

:

Precautions for doctors

:

## 5. FIREFIGHTING MEASURES



Suitable extinguishing agents:

Fire-extinguishing powder, Carbon dioxide, Foam and Water fog

Special hazards that may be encountered during firefighting:

The pressure of the container will rise at high temperatures, prevent it from bursting, and cool it down by sprinkling water.

Special firefighting procedures:

Firefighters should wear self-contained breathing apparatus or positive pressure breathing apparatus to avoid exposure to harmful gases and maintain a safe distance during firefighting.

Special protective equipment for firefighters

: Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

## 6. HANDLING AND STORAGE



Personal precautions:

Personnel must wear appropriate personal protective equipment before handling accidental release.

Environmental precautions:

If there is no danger, stop the release of liquid, remove fire source, isolate the hazardous area and block the access. Before entering the confined space, make sure there is adequate ventilation and enough oxygen. Further prevention extends to pollution to air, soils, surface water, groundwater, etc.

Methods for cleaning up:

1. Do not contact the leak.
2. Absorb the released materials with sands, wood chips, oil absorbing cottons or other non-flammable absorbing materials and collect the released materials into an adequate container.
3. Wash the released area with water.

## 7. ACCIDENTAL RELEASE MEASURES



Handling:

1. Wear appropriate protective gear and apply local ventilation.
2. Smoking and eating are prohibited in workplace.
3. Carry out personal hygiene and cleaning up after finishing a job
4. Avoid contact of objects with eyes, hands or body during work.

Storage:

1. Storage place must comply with current regulations.
2. Keep in a cool, dry and well-ventilated place.
3. Protect containers and pipelines from collision or damage; keep away from flammable materials
4. Store in a qualified safety container
5. Containers should be capped and kept tight when not in use
6. Store separately from incompatible materials

## 8. EXPOSURE PREVENTION MEASURES



Engineering Controls : Avoid, as far as reasonably practicable, inhalation of vapor, mists or fumes generated during use.

Control Parameter : Workable exposure standard for an 8-hour time-weighted average exposure (TWA) of 5 mg / m<sup>3</sup> for oil mist.

Permissible Exposure Limit (PEL)	Permissible Exposure Limit (PEL)	Permissible Exposure Limit (PEL)	Biological Exposure Indices (BELS)
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### PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection : Under normal operation inhalation hazards are not expected, and there is no special requirement for respiratory protection equipment.

Protection of hands : use chemical protective gloves such as rubber gloves, synthetic rubber gloves, and vinyl rubber gloves.

Eye protection : use safety glasses and anti-splash masks to prevent chemical splash.

Skin and body protection : use a chemical protective, one-piece work apron.

## 9. PHYSICAL AND CHEMICAL PROPERTIES



Appearance	: CLEAR LIQUID	Odor	:
Color	: FLOURSCENT GREEN	Boiling point	: -108 DEG C
pH-value	: 7.5-11.0	Flash point	: ASTM D93 DEG C –LIKE WATER MISCIBLE
Relative density	:	Explosion limits	:
Decomposition temperature	:	Ignition temperature	:
Vapor pressure	:	Vapor density	: ASTM 1298 KG/L 1.043
Solubility	:		

## 10. STABILITY AND REACTIVITY



Stability:

Stable at room temperature.

Possible hazardous reaction under special conditions:

no polymerization will occur

Conditions to avoid:

avoid contact with high heat, sparks, open flames, other ignition materials, and incompatible material

Substances that should be avoided:

avoid contact with strong oxidants, which would cause fire and explosion hazards

Hazardous decomposition products:

under high heat it is decomposed into carbon oxides and various organic substances

## 11. TOXICOLOGICAL INFORMATION



Route of Exposure:

Inhalation, Skin Contact, Swallowing, Eye Contact

Acute toxicity

- Inhalation: it may cause people discomfort, but it usually does not harm the respiratory system.
- Skin: there is currently no appropriate data to show hazards from skin contact.
- Eye: irritate eyes
- Ingestion: may cause gastrointestinal discomfort such as diarrhea.
- Chronic Toxicity or Long Term Toxicity: there is currently no appropriate data to show chronic harm to humans.

## 12. ECOLOGICAL INFORMATION



Possible environmental impact/environmental distribution:  
Stable at room temperature.

## 13. DISPOSAL CONSIDERATIONS



Disposal considerations:

1. Put contaminated materials into disposable containers and discard them according to relevant regulations.
2. Dispose in accordance with the new version of the Waste Disposal Act and other relevant waste disposal regulations.
3. If possible, try to recycle the waste
4. When the amount is small, wipe it with oil-absorbing paper and send it to the incinerator.

## 14. TRANSPORT INFORMATION



International Transportation Regulations	: Not classified as a dangerous goods for transport
UN Number	:Not Allocated
Domestic Transportation Regulations	: Not classified as a dangerous goods for transport
Specific transport measures and precautionary conditions:	: The product is combustible with flash point greater than 60.5 Deg.C.
Regulations as per IATA	:Not restricted as per IATA

## 15. REGULATORY INFORMATION



### Applicable regulations:

Occupational Safety and Health Act  
Regulations for the Labeling and Hazard Communication of Hazardous Chemicals  
Standards of Permissible Exposure Limits at Job Site  
Road Traffic Safety Regulations  
Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste  
Public Hazardous Substances & Flammable Pressurized Gases Establishment Standards & Safety Control Regulations

## 16. OTHER INFORMATION



References

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### DATA PREPARED UNIT

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Data Prepared Date

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