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It has been prepared in accordance with the Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals (Official Gazette No. 23.06.2017-30105)

1: Identification of the substance/mixture and company/distributor

1.1 Identity of the substance/mixture

Product name : **CONCENTRATED ANTIFREEZE**

1.2. Identified Uses of the Substance or Mixture and Uses Advised

Recommended Usage: Cooler

1.3. Safety Data Sheet Supplier Information

Manufacturer/Supplier: : **Parkim Gres Industrial Oils San. And Trade. Inc.**

Address: İnönü Mahallesi Gebze Plastikçılar OSB Mahallesi 32. Sk . No: 11 41400 Gebze / Kocaeli

Telephone: +90 262 206 01 01 Email: www.raschlubricant.com

Fax: +90 262 01 02

1.4. Emergency Phone Number

National Poison Information Center (UZEM): 114

2: Hazard Identification

2.1. Classification of the substance or mixture Classified according to Regulation (EC) No 1272/2008. (OG: 11.12.2013, 28848 Duplicate)

Human health : Harmful if swallowed, acute fatal danger. May cause damage to organs through prolonged or repeated exposure.

Environmental: The product is not expected to be hazardous to the environment.

Physico -chemical: The product is not classified as flammable substances, but may ignite when exposed to sources of flame at a temperature above its flash point.

Label Elements

Labeling was carried out in accordance with regulation (EC) No 1272/2008. (OG: 11.12.2013, 28848 Duplicate) The product is classified and labeled according to the CLP regulation.



Hazard pictograms:

- Signal word: Attention
- **Hazard statements**
 - **H302** Harmful if swallowed.
 - **H373** **May** cause damage to organs through prolonged or repeated exposure .
- Hazard-determining ingredients for labeling: ethanediol
- **Precautionary statements :**
 - P260** Do not breathe vapour/spray.
 - P264** Wash contaminated skin thoroughly after handling.
 - P270** Do not eat, drink or smoke when using this product.
 - P301+P312** IF SWALLOWED: If you feel unwell, call a NATIONAL POISON CENTER or doctor/physician.
 - P314** If you feel unwell, seek medical advice/attention.
 - P330** Rinse mouth.
 - P501** Dispose of contents/container according to national regulations.

Other Hazards Other hazards: When normal precautions are taken (see clause 7) and personal protective equipment (see clause 8) is used, these chemicals do not pose an appreciable risk.

- PBT and vPvB assessment results: Not applicable

3. Composition/Information on Ingredients

3.1. mixes

Substance name	Cas No.	EC Number	Ratio(%)	H Expressions
Ethanediol	107-21-1	203-473-3	60 – 80%	Acute Tox. 4- H302 STOT Repeat. Mrz . 2- H373
Sodium 2-ethylhexanoate	19766-89-3	243-283-8	< 2.5 %	Urm . Fog. Full. 2- H361d

* Explanations of H expressions are given in Chapter 16 are taken from the MSDS sent by the supplier

4. First Aid Measures

4.1. Description of First Aid Measures

Eyes: Wash immediately with plenty of water. If you have contact lenses, remove them. Continue washing. If irritation persists after washing, seek medical attention.

Skin: Immediately remove contaminated clothing and wash with plenty of water and soap.

Ingestion: Harmful if swallowed, acute fatal danger. Get medical help immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Breathing : Remove the person to fresh air and allow him/her to breathe comfortably.

4.2. Most important symptoms and effects, both acute and delayed

There are no known specific health hazards.

4.3 Tıbbi müdahale ve özel tedavi gereği için ilk işaretler

No other important information is available.

5. Fire Fighting Precautions

5.1 Fire Extinguishers

To extinguish the burning product, first use Film Forming Foam Concentrate (A.F.F.F). In cases where foam concentrate is not available, use a fire extinguisher containing Dry Chemical Powder, depending on the size of the fire. If the burning product is in a pressurized container, cool it with a water jet.

5.2 Special hazards arising from the substance or mixture Specific hazards: None known

Hazardous combustion products: Carbon dioxide (CO₂). Carbon monoxide (CO). Sulfur gases (SO_x). Mercaptans. Zinc oxide fumes. Hydrogen sulfide (H₂S).

5.3 Advice for firefighters Protective equipment: In the event of a fire, use a self-contained breathing apparatus to prevent contact with eyes and skin.

6. Precautions Against Accidental Release

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection devices specified in Section 8.

6.2 Environmental precautions

Keep away from surface and ground water.

6.3 Methods and materials for containment and cleaning up

Cleanup Methods - low spill: Absorb into sand or soil. Sweep and place in a suitable, clearly marked container for disposal in accordance with local regulations.

Cleanup Methods - large spill: Prevent material from spreading by creating a barrier with sand, soil or other material. It is cleaned directly or with an absorbent liquid. Dispose of as for small spills.

7. Handling and Storage

7.1 Precautions for safe handling

Avoid breathing vapor spray/mist. Do not handle on skin, in eyes or on clothing. Do not eat, drink or smoke while using this product. All handling operations should only take place in well-ventilated areas. Take precautions against static discharge. For personal protection, see Chapter 8.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed, original containers in a dry, cool and well-ventilated place. Keep it upright. Keep away from food, beverages and animal feed.

7.3 Specific end uses

Unknown

8. Exposure Controls/Personal Protection

8.1. Control parameters

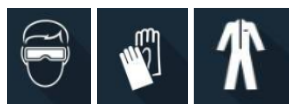
Mixtures do not have TWA and STEL values.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Keep the concentration of substances in the environment below permissible limits by providing appropriate general or regional ventilation.

8.2.2 Personal Protective Equipment



Eyes: Under normal circumstances, eye protection equipment is not required. Where there is a risk of splashing, wear safety glasses with side lenses for safe work.

Clothing: Use suitable protective clothing to prevent skin contact. Protective clothing to be selected according to the procedures to be performed includes gloves, aprons, boots and full face protective materials. Recommended materials for protective gloves are: Nitrile Rubber, Silver Shield, Viton.

Respiratory: No respiratory protection is required under normal conditions. If user operations create oil mist, determine whether airborne concentrations are below the occupational exposure limit for H₂S. If not, use an approved respirator that provides adequate protection against measured concentrations of this substance. In air-purifying respirators, use a particulate cartridge.

9. Physical and Chemical Properties

Features	Unit	Values	Method
Density, 20 °C	g /cm ³	1.065-1.145	ASTM D 5002
Freezing Point °C	100% Antifreeze	(-10) -(-12)	ASTM D 1177
	Mixture of 50% Antifreeze with Water	(-36) -(-38)	
	Mixing 33% Antifreeze with Water	(-16)-(- 18)	
Boiling point	°C	Min163	ASTM D 1120
Hidden Alkalinity(M/10HCl)	ml	Min.10	ASTM D 1121
pH	-	7.5 – 11.0	ASTM D 1287

10. Stability and Reactivity

10.1. Reaction

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

It is stable under normal conditions.

10.3. Possibility of harmful reactions

Dangerous reactions are unknown.

10.4. Situations to avoid

Avoid exposure to high temperatures and direct sunlight. 10.5 Substances to avoid No further relevant information available.

10.6. Harmful decomposition products

It is usable and will not decompose when stored as recommended.

11. Toxicological Information

There are no known specific health hazards. Unclassified

12. Ecological Information

12.1. Toxicity

The product is not expected to be hazardous to the environment. Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

There is no data.

12.3. Bioaccumulation potential

There is no data on bioaccumulation.

12.4. Mobility in soil

The product is soluble in water and may disperse in aquatic systems.

12.5. Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6. Other adverse effects

No other important information available .

13. Disposal Information

13.1 Waste treatment methods

Dispose of waste to licensed waste disposal facility in accordance with local Waste Disposal Authority requirements. Care should be taken when using empty containers. It must be thoroughly cleaned or rinsed. Do not reuse empty containers. The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR / RID).

14. Transportation Information

14.1	UN number	-
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packaging group	-
14.5	Environmental damages	-
14.6	Special precautions for the user	-
14.7	MARPOL 73/78 annex II and IBC (public transport according to code)	-

15. Regulatory Information

15.1. Specific safety, health and environmental legislation for the substance or mixture

- Labeling is made in accordance with regulation (EC) No 1272/2008: The product is classified and labeled according to CLP regulation.
- Directive 2012/18 / EU: Named dangerous substances - substances in Annex I are listed.
- National regulations: The product will be labeled in accordance with the current version of the regulations on hazardous substances.

16. Other Information

CAS: chemical Abstracts Service

EC (EINECS) : European Inventory of Existing Commercial Chemical substances

PBT: Persistent , Biaccumulative oath toxic

vPvB : very persistent oath very biaccumulative

Aquatic Chronic 2 : Harmful to the aquatic environment Category 2

Eye Damage . 1 : Serious eye damage Category 1

Skin Sensitive. 1 : Skin sensitization Category 1

Asp . Full. 1 : Aspiration toxicity Category 1

16.2. Classification Methods :-

16.3. Relevant hazard statements, explanations of precautionary statements

H Expressions

H302: Harmful if swallowed

H361 d: Suspected of causing harm to the unborn child.

H373 : May cause damage to organs through prolonged or repeated exposure.

H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.

P Expressions

P102 : Keep out of reach of children.

P401: Protect from sunlight. Store in a closed area, away from damp and humid environments.

P501: Dispose of contents/container by sending to waste collection centre.

**This safety data sheet has been prepared in light of the information available at the time it was written. It is the user's responsibility to comply with all applicable laws and regulations and all necessary precautions regarding the use of the product.

17. Legal Information

This safety data sheet has been prepared in light of the information available at the time it was written. It is the user's responsibility to comply with all applicable laws and regulations and all necessary precautions regarding the use of the product. It cannot be stated or guaranteed, directly or indirectly, that the data in this information sheet is correct or complete. The recommendations given are valid when this product is used for its specified applications. Our institution will not be responsible for any material damage or injuries that may arise from users' use of the product other than the specified one, failure to comply with the recommendations, or risks inherent in the material. This product should not be used for any purpose other than the specified applications without consulting us. Those who purchase this product to give and/or give it to third parties who will use it are responsible for passing on the information in this form to those who will use the product. Employers are obliged to explain the risks described in this form or the precautions to be taken to their workers and others who may be affected.

