



Part I

SAFETY DATA SHEET

READY ANTIFREEZE (READY ANTIFREEZE) -40C

Dated December 13, 2014 and numbered 29204, "Ministry of Environment and Urbanization Regarding Hazardous Substances and Mixtures
It has been arranged in accordance with the provisions of the Regulation on Safety Data Sheets

PART 1: Identity of the substance / mixture and company / distributor

1.1. Substance / Mixture identity

Name of the product READY ANTIFREEZE (READY ANTIFREEZE) -40C 13229

Item number

1.2. Relevant identified uses of the substance or mixture and uses advised against Identified uses

Antifreeze fluid.

Uses not recommended Use only for the intended purpose.

1.3. Information of the safety data sheet supplier

Supplier PETROL OFİSİ A.Ş.
Ünalán Mahallesi, Libadiye Caddesi No: 82F Kat: 2-3-4, 34700 Üsküdar / İstanbul Tel: +90 850 339 1919
Fax: +90 216 275 3854
miningiyag@petrolofisi.com.tr

Contact person Customer Service: mineiyag@petrolofisi.com.tr

1.4. Emergency phone number

Emergency phone number Mineral Oil Customer Service: 0850 339 1919 (office hours)

National emergency phone Emergency Health Services: 112 National Poison Information Center (UZEM): 114

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification TC 28848

Physical damages Not classified as harmful

Health hazards Acute Tox. 4- H302

Environmental damages Not classified as harmful

2.2. Label elements

Hazard sign



Warning word Attention

Hazard Statements H302 Harmful if swallowed.

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Precautionary statements

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 114 THE NATIONAL POISON ADVICE CENTER or a doctor / physician.
P330 Rinse mouth.
P501 Dispose of contents / container in accordance with national regulations.

Contents Monoethylene glycol

2.3. Other damages

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Monoethylene glycol CAS number: 107-21-1	40-60%
Classification Acute Tox. 4- H302	
Toliltriazololo CAS number: 29385-43-1	<1%
Classification Acute Tox. 4- H302 Aquatic Chronic 2- H411	
IDROSSIDO DI SODIO CAS number: 1310-73-2	<1%
Classification Met. Over. 1- H290 Skin Corr. 1A- H314 Eye Dam. 1- H318	

The full text of the hazard statements is given in Section 16.

Reviews on the composition All percentages are expressed on a weight / weight basis.

Content notes See Section 8 for occupational exposure limits.

SECTION 4: First aid measures

4.1. Description of first aid measures General

information If discomfort continues, seek medical attention.

Breathing Move affected person to fresh air immediately. Seek medical help. Bring the exposed person to fresh air and keep them warm and at rest in a position where they can breathe comfortably. When breathing difficulties occur, oxygen can be given to the casualty by appropriately trained personnel.

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Swallowing	Do not try to induce vomiting. Never give anything by mouth to an unconscious person. Do not try to induce vomiting. Remove affected person from source of contamination. Drink plenty of water. Seek medical help immediately. Bring the exposed person to fresh air and keep them warm and at rest in a position where they can breathe comfortably.
Skin contact	Take off contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists after washing, seek medical attention.
Eye contact	Remove contact lenses, and open the eyelids wide. Continue washing for at least 15 minutes. Continue washing for at least 15 minutes. If symptoms occur after washing, seek medical attention immediately.
First aid workers preservation	First aid personnel should wear appropriate protective equipment during rescue.

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

information	See Section 11 for additional information on health hazards.
Breathing	There are no specific symptoms known.
Swallowing	There are no specific symptoms known.
Skin contact	There are no specific symptoms known.
Eye contact	There are no specific symptoms known.

4.3. Indication of any medical attention and special treatment needed Information to be

given to the doctor	Treat symptomatically.
Special treatments	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Fire extinguishers

Suitable extinguishing agents	The product is not flammable. Extinguish with foam, carbon dioxide or dry powder. Foam. That.
Unsuitable extinguisher substances	

5.2. Special hazards arising from the substance or mixture Special hazards

	Unknown.
Harmful combustion products	Not known.

5.3. Advice for firefighters

During fire fighting preservative to be taken measures	Wear special protective clothing.
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For firefighters special protective equipment Positive pressure self-contained breathing apparatus and suitable protective clothing get dressed.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as shown in Section 8 of this Safety Data Sheet. Avoid inhalation of spray mist and contact with skin and eyes.

Emergency personnel for those who are not Necessary precautions should be taken so that personnel who do not have proper training do not interfere.

For emergency responders Wear protective clothing as shown in section 8 of this safety data sheet. NOTICE: Report spillage to local authorities, as appropriate or necessary. Stop the source of the leak if it can be done without risk. Limit the spill to prevent further contamination of the soil, surface or underground water. Clean up the spilled material as soon as possible, following the precautions in the Exposure Controls / Personal Protection section. Use non-flammable absorbent materials or appropriate techniques such as pumping. Whenever possible or see fit, dig out the contaminated soil from the area. Place contaminated materials in disposable containers and dispose of them in accordance with regulations. If a heated substance is spilled,

6.2. Environmental measures

Environmental measures Contain spillage with sand, earth or other suitable non-flammable material.

6.3. Methods and materials for containment and cleaning

Spill removal methods Collect waste and place it in suitable waste disposal containers and seal tightly. Waste and Label containers containing contaminated materials and remove from the area as soon as possible. If it is involved in the fire, cut off the flow in the pipeline if it does not pose any danger.

6.4. Reference to other sections

Reference to other sections For personal protection see section 8. See Section 1 for emergency contact information. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see section 13. See Section 7 for more information on safe handling.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Usage

precautions Avoid spilling. Do not handle broken packages without protective equipment.

On general occupational hygiene advices Do not eat, drink or smoke anything while using this product. Eyewash and provide safety shower. Good personal hygiene procedures should be followed.

7.2. Conditions for safe storage, including any incompatibilities

Storage measures Store in tightly closed original packaging in a dry, cool and well-ventilated place. Store in accordance with international regulations.

Storage class Chemical storage.

7.3. Specific end use (s)

Specific end use (s) The identified uses for this product are detailed in Section 1.2.

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Directions for use

Good ventilation should be provided in the working environment and inhalation of the vapor generated during use should be avoided.

Contact with the skin should be avoided and hygienic rules should be applied.

Contact with eyes should be avoided. Glasses or face masks should be used to prevent eye contact.

Use disposable clothing. Dispose of contaminated clothing without packaging. It should not be flushed with the mouth.

SECTION 8: Exposure Controls / personal protection

8.1. Control parameters

Occupational exposure limits

Monoethylene glycol

Exposure Limits AFS 2005: 17 (Sweden, 6/2007) OSHA (PEL):

50 ppm

ACGIH TLV: 50 ppm

Content notes WEL = Workplace Exposure Limits No further

Biological limit values information available.

DNEL No other information is available.

DMEL No other information is available.

PNEC No other information is available.

8.2. Exposure controls Protective

equipment



Proper engineering controls Provide adequate general and local exhaust ventilation.

Personal protection Keep away from foodstuffs, food and drink. Instantly remove contaminated and impregnated clothing. Wash hands during breaks and after work. Store protective equipment separately.

Eye / Face protection The following protection equipment should be used: Protective goggles against splashing chemicals. It is recommended that gloves are made

Hand protection of the following materials: Polyvinyl chloride (PVC). Rubber (natural, latex).

Other skin and body protection Wear appropriate clothing to prevent any possibility of repeated or prolonged contact with liquids and vapors.

Health measures Do not smoke in the work area. Wash hands at the end of each work shift and before eating, smoking or using the toilet. Take off contaminated clothing immediately. Wash contaminated skin immediately with soap and water. Use a suitable skin cream to prevent the skin from drying out.

Respiratory system preservation There are no special storage measures recommended. Respiratory protection may be required if excessive air contamination occurs.

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Thermal damages	If there is danger of contact with hot product, all protective equipment suitable for use with high temperatures should be used.
Environmental exposure controls	Compliance of ventilation emissions and work process equipment with environmental protection legislation requirements should be checked.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties Appearance

	Liquid.
Color	Blue-green.
Smell	Matter specific.
Odor threshold	There is no specific test data available.
pH	There is no specific test data available.
Melting point / freezing point - 40 ° C	
Initial boiling point and boiling range	There is no specific test data available.
Flash point	110 ° C OC (Open cup).
Evaporation rate	There is no specific test data available. There is
Evaporation factor	no specific test data available. There is no
Flammability (solid, gas)	specific test data available. There is no specific
Upper / Lower flammability or explosive limits	test data available.
Other flammability	There is no specific test data available. There is
Vapor pressure	no specific test data available. There is no
Vapor density	specific test data available.
Relative density	1.12 g / ml @ 20 ° C
Volumetric density	There is no specific test data available. It is
Resolution (s)	water soluble.
Partition coefficient	There is no specific test data available. There is
Self ignition temperature	no specific test data available.
Decomposition temperature	There is no specific test data available. There is
Viscosity	no specific test data available. There is no
Explosive properties	specific test data available.

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Explosive under the influence of flame	There is no specific test data available.
Oxidizing properties	Not known.
Descriptions	There is no specific test data available.
9.2. Other informations	
Other informations	There is no specific test data available. There is
Refractive index	no specific test data available. There is no
Particle size	specific test data available. There is no specific
Molecular weight	test data available. There is no specific test data
Volatility	available. There is no specific test data available.
Saturation concentration	There is no specific test data available. There is
Critical temperature	no specific test data available.
Volatile organic compound	

SECTION 10: Stability and reactivity

10.1. Reaction

Reaction The product is stable under normal conditions.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Hazardous reactions will not occur under normal conditions of storage and use.

10.4. Conditions to avoid **Conditions to avoid** Keep away from heat, sparks and open flames.

10.5. Incompatible materials **Materials to avoid** Strong oxidizing agents. Aluminum Phenols, cresols.

10.6. Hazardous decomposition products

Hazardous decomposition products Not known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects **Toxic**

effects The information given is based on the data of the components and similar products.

Other health effects No other information is available.

Acute toxicity - oral **Summary**

Acute Tox. 4- H302

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Notes (oral LD₅₀)	No other information is available.
ATE oral (mg / kg)	996,02
<u>Acute toxicity - dermal Summary</u>	
	No other information is available.
Notes (dermal LD₅₀)	No other information is available.
<u>Acute toxicity - inhalation</u>	
Summary	No other information is available.
Notes (inhalation LC₅₀)	No other information is available.
<u>Skin corrosion / irritation</u>	
Summary	Based on available data, the classification criteria are not met. Based on
Skin corrosion / irritation	available data, the classification criteria are not met. Based on available data,
Animal data	the classification criteria are not met. Based on available data, the
Human skin model test Extreme	classification criteria are not met. Based on available data, the classification
pH	criteria are not met.
<u>Serious eye damage / irritation</u>	
Summary	Based on available data, the classification criteria are not met. Based on
Serious eye damage / irritation	available data, the classification criteria are not met.
<u>Respiratory sensitization</u>	
Summary	Based on available data, the classification criteria are not met. Based on
Respiratory tract sensitization	available data, the classification criteria are not met.
<u>Skin sensitization</u>	
Summary	Based on available data, the classification criteria are not met. Based on
Skin sensitization	available data, the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Summary	Based on available data, the classification criteria are not met. Based on
Genotoxicity - in vitro	available data, the classification criteria are not met. Based on available data,
Genotoxicity - in vivo	the classification criteria are not met.
<u>Carcinogenicity</u>	
Summary	Based on available data, the classification criteria are not met. Based on
Carcinogenicity	available data, the classification criteria are not met. There are no known
Target for carcinogenicity organs	specific target organs.

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IARC carcinogenicity	No other information is available.
NTP carcinogenicity	No other information is available.
<u>Reproductive toxicity</u>	
Summary	No other information is available.
Reproductive system toxicity fertility	No other information is available.
Reproductive system toxicity developmental	No other information is available.
<u>Specific target organ toxicity - single exposure Summary</u>	
	No other information is available.
BHOT- single exposure	Based on available data, the classification criteria are not met.
Target organs	No other information is available.
<u>Specific target organ toxicity - repeated exposure Summary</u>	
	No other information is available.
BHOT- repeated exposure	Based on available data, the classification criteria are not met.
Target organs	No other information is available.
<u>Aspiration hazard</u>	
Summary	No other information is available.
Aspiration hazard	No other information is available.
Toxicokinetics	No other information is available.
General information	No other information is available.
Breathing	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Swallowing	Harmful if swallowed.
Contact with skin	Skin irritation does not occur when used as recommended. There is no known
Eye contact	specific health hazard.
Acute and chronic health hazards	No other information is available.
Contact ways	No other information is available.
Target organs	No other information is available.
Medical symptoms	No other information is available.
Medical opinions	No other information is available.
<u>Toxicological information on ingredients</u>	

Monoethylene glycol

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Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 8.54 g / kg, Oral, Rat LD₅₀ 13.7 g / kg, Oral, Mouse LD₅₀ 6.61 g / kg, Oral, Pig

ATE oral (mg / kg) 500,0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ 9530 mg / kg, Dermal, Rabbit

Toliltriazolo

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀> 720 mg / kg, Oral, Rat LD₅₀> 4000 mg / kg, Dermal, Rabbit LC50> 0.43 mg / l, Inhalation, Rat

ATE oral (mg / kg) 500,0

IDROSSIDO DI SODIO

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 333-388 mg / kg, Oral, Rabbit

SECTION 12: Ecological information

Ecotoxicity Based on available data, the classification criteria are not met.

12.1. Toxicity

Toxicity Based on available data, the classification criteria are not met.

Acute aquatic toxicity

Summary Based on available data, the classification criteria are not met. There is no specific

Acute toxicity - fish test data available.

Acute toxicity - aquatic invertebrates There is no specific test data available.

Acute toxicity - aquatic plants There is no specific test data available. There is

Acute toxicity microorganisms no specific test data available.

Acute toxicity - terrestrial organisms There is no specific test data available.

Chronic aquatic toxicity

Summary Based on available data, the classification criteria are not met. There is no specific

Chronic toxicity- in fish early life stage test data available.

Short term toxicity - embryo and early larval stages There is no specific test data available.

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Chronic toxicity- aquatic invertebrates There is no specific test data available.

Toxicity to soil There is no specific test data available. There is

Toxicity to terrestrial plants Ecological no specific test data available.

information on ingredients

Monoethylene glycol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 24-48 hours: 20 mg / l, blue gill sunfish

Acute toxicity - aquatic plants NOEC, > 700 mg / l, entosiphone sulcatum

Acute toxicity microorganisms LC₅₀,: 12.8 mmol / l, ciliate
LC₅₀,: 92 mg / l, pseudomonas putida
EC₅₀,: > 1400 mg / l, microcystis aeruginosa

Toliltriuzolo

Acute aquatic toxicity

Acute toxicity - fish EC₅₀, 72 hours: 62 mg / l,
LC₅₀, 96 hours: 65 mg / l, Danio rerio (Zebrafish) LC₅₀, 96 hours:
31 mg / l, Freshwater fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 35.4 mg / l, daphnia

Acute toxicity - aquatic plants LC₅₀, 96 hours: 25.5 mg / l,

IDROSSIDO DI SODIO

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 48 hours: 213 mg / l, LC₅₀,
48 hours: 189 mg / l,

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 40.4 mg / l, daphnia

12.2. Persistence and degradability

Persistence and degradability The product is easily biodegradable.

Phototransformation There is no specific test data available. There is

Stability (hydrolysis) no specific test data available. There is no

Biodegradation specific test data available. There is no specific

Biological oxygen demand test data available. There is no specific test data

Chemical oxygen demand available.

12.3. Bioaccumulative potential

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Bioaccumulative potential There is no specific test data available. There is

Partition coefficient no specific test data available.

12.4. Mobility in soil

Mobility The product is water soluble.

Adsorption / desorption coefficient There is no specific test data available.

Henry's law constant There is no specific test data available. There is

Surface tension no specific test data available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB results of the assessment There is no specific test data available.

12.6. Other adverse effects Other

adverse effects There is no specific test data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods General

information Waste generation should be minimized or avoided wherever possible. Wastes, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated appropriate containers and labeled according to their contents.

Waste treatment methods Dispose of waste in a licensed waste disposal facility in accordance with the requirements of the local Waste Disposal Authorities.

Waste class Waste code classification should be carried out according to the European Waste Catalog (EWC).

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR / RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class (es)

There is no required transport warning sign.

Shipping labels

There is no required transport warning sign.

14.4. Packing group

Not applicable.

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14.5. Environmental damages

Environmentally harmful / marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

MARPOL 73/78 Annex II and IBC Not applicable.

pouring by code

transportation

SECTION 15: Regulatory information

15.1. Safety, health and environmental legislation specific for the substance or mixture

National regulations TC Ministry of Environment and Urbanization Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures

Republic of Turkey Ministry of Environment and Urbanization, Regulation on Classification, Labeling and Packaging of Substances and Mixtures, dated 11 December 2013 and numbered 28848.

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010. <https://echa.europa.eu>

Guide Workplace Exposure Limits EH40. CHIP for everyone HSG228.
Approved Classification and Labeling Guide (Sixth edition) L131.

SECTION 16: Other information

In the safety data sheet used abbreviations and acronyms

TWA: Workplace exposure limits PPE:
Personal protective equipment
EU: European Union
UZEM: National Poison Information Center ATE:
Acute Toxicity Estimate.
ADR: European Agreement on the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstracts Service.
DNEL: Derived no-effect level. IATA: International Air Transport Association. GHS: Global Harmonized System.

ICAO: Technical Specifications for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods.
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Observed Effect Concentration.
REACH: EU Regulation (EC) No 1907/2006 on Registration, Evaluation, Authorization and Restriction of Chemicals.
vPvB: Very Persistent, Very Bioaccumulative.
IARC: International Agency for Research on Cancer.
MARPOL 73/78: International Convention for the Prevention of Pollution from Ships, 1973, as amended by the 1978 Protocol.

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Abbreviations and acronyms	Acute Tox. = Acute toxicity Aquatic Chronic = Harmful to the aquatic environment (chronic) Met. Corroded. = Corrosive to metals Skin Corr. = Skin abrasion Eye Dam. = Eye damage
General information	Disclaimer: This information is based on our current knowledge and the product is described for the purpose of health, safety and environmental requirements only. For this reason, it should not be interpreted as guaranteeing any specific feature of the product. Uses and Restrictions: This product should not be used outside of the applications recommended in Section 1 without the prior recommendation of the supplier. This product is not used as a solvent or cleaning agent to set fire or to make it brighter and to clean the skin. Material Safety Data Sheet Distribution: The information in this document should be made available to all persons who can handle this product. Only trained personnel should use this material. This document contains important information for the safe storage, transport and use of this product. Information in this document
Main literature references and sources of information	This SDS is arranged within the information received from our raw material suppliers.
Dated December 11, 2013 and 28848 according to regulation classification conditions	Acute Tox. 4- H302: Calculation method., Supplier information
Education advice	Untrained personnel should not be used.
Organized by	Sevda ŞAHAN Certified Safety Data Sheet Maker (Certificate No: GBF01.23.08; Date: 03.11.2018-03.11.2021)
How many regulations	0
Preparation date	01.08.2019
SDS No	20669
All of the hazard statements	H290 May corrode metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.

This information relates only to a specific specific substance and should not be used in a composition or any process where the same substance is used in combination with other substances. This information is accurate and reliable as of the date specified, within the firm's high level of knowledge and opinion. However, no warranty or representation of any kind is made for its accuracy, reliability and completeness. It is the user's own responsibility to be satisfied that this information is suitable for his own use.