



Part I
SAFETY DATA SHEET
HYDRO-TECH FG 46

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".

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

1.1. Substance / Mixture identity

Name of the product HYDRO-TECH FG 46
CAS number 57675-44-2
EC number 701-042-9

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

Hydraulic oil.

Uses not recommended Use only for the intended purpose.

1.3. Information of the safety data sheet supplier

Supplier PETROL OFİSİ A.Ş.
Ünalan 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 Not classified as harmful
Environmental damages Not classified as harmful

2.2. Label elements

EC number 701-042-9
Hazard Statements NC Not classified as Harmful

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Precautionary statements	P261 Avoid breathing dust / fume / gas / mist / vapor / spray. P264 Wash contaminated skin thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves / protective clothing / eye protection / face protection. P401 Store in accordance with international regulations.
	P501 Dispose of contents / container in accordance with local regulations.

2.3. Other damages

SECTION 3: Composition / information on ingredients

3.1. Substances

Name of the product	HYDRO-TECH FG 46
CAS number	57675-44-2
EC number	701-042-9
Reviews on the composition	It is not classified as a physical hazard. It is not classified as harmful to the environment. It is not classified as hazardous to health.

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. Rinse nose and mouth with water. If discomfort continues, seek medical attention.
Swallowing	Never give anything by mouth to an unconscious person. Do not try to induce vomiting. Rinse mouth thoroughly with water. If discomfort continues, seek medical attention.
Skin contact	Remove affected person from source of contamination. Take off contaminated clothing. Wash skin thoroughly with soap and water. If discomfort continues, 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 discomfort continues, seek medical attention.
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 immediate medical attention and special treatment needed

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Information to be given to the doctor	No specific treatment is recommended. Treat according to symptoms. Treat
Special treatments	symptomatically.

SECTION 5: Firefighting measures

5.1. Fire extinguishers

Suitable extinguishing agents	The product is not flammable. Small fires: Foam. Dry chemicals.
Unsuitable extinguisher substances	Do not use water jet to extinguish the fire, in case it spreads the fire.

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

It is not known.

Harmful combustion products	Carbon dioxide (CO ₂). Carbon monoxide (CO).
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5.3. Advice for firefighters

During fire fighting	Avoid breathing fire gases or vapors. Without proper training or personal
preservative to be taken	No dangerous action should be taken.
measures	

For firefighters	Positive pressure self-contained breathing apparatus and suitable protective clothing
special protective equipment	get dressed. EN 133. NIOSH

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Personal precautions

Wear protective clothing as shown in Section 8 of this Safety Data Sheet.

Emergency personnel for those who are not	Necessary precautions should be taken so that personnel who do not have proper training do not interfere.
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For emergency responders	Stop the source of the leak if it can be done risk-free. 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 deemed appropriate, dig out the contaminated soil from the area. Place contaminated items in disposable containers and dispose of in accordance with regulations. In the event of a spill of heated substance, allow it to cool before handling by disposal methods. NOTICE: Report spillage to local authorities, as appropriate or necessary.
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6.2. Environmental measures

Environmental measures	Avoid spilling into drains or watercourses or on the ground.
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6.3. Methods and materials for containment and cleaning

Spill removal methods	If possible, stop the leak provided there is no danger. Vermiculite, dry sand or soak in soil and place in containers. Wash the contaminated area with copious amounts of water. Avoid spillage or runoff entering drains, sewers or watercourses.
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6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep only in the original packaging or in an alternative packaging that has been approved to be compatible with the material, keep containers closed when not in use. For appropriate personal protection use protective equipment as shown in section 8 of this safety data sheet. Avoid contamination of soil or discharge of this material into sewers and water. 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.

Avoid eating, drinking and smoking while using. Use disposable clothing.

Advice on general occupational hygiene Do not eat, drink or smoke anything while using this product. Good personal hygiene procedures should be followed. Remove contaminated clothing and protective equipment before entering eating areas.

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. It should be used as specified in the

Directions for use product data sheet.

SECTION 8: Exposure Controls / personal protection

8.1. Control parameters

Content notes No other information is available.

Biological limit values No other information is available.

DNEL No other information is available.

DMEL No other information is available.

PNEC No other information is available.

8.2. Exposure controls

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Protective equipment



Proper engineering controls

Provide adequate ventilation. Avoid breathing vapors. Observe the occupational exposure limit for the product and its ingredients.

Personal protection

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. 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

If the risk assessment indicates the possibility of eye contact, eye protection compliant with an approved standard should be used. The following protective equipment should be used: Goggles or face shield against splashes of chemicals.

Hand protection

If the risk assessment indicates that skin contact is possible, chemical resistant waterproof gloves complying with an approved standard should be used.

Other skin and body protection Health

Wear appropriate clothing to prevent any skin contact.

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. If skin becomes contaminated, wash it off immediately. Take off contaminated clothing immediately. 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. Gas filtering device (DIN EN 141). Mask with A filter, color brown

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	Yellow.
Smell	Matter specific.
Odor threshold	There is no specific test data available.
pH	Scientifically unjustified.

Melting point / freezing point There is no specific test data available.

Initial boiling point and boiling range There is no specific test data available.

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Flash point	> 300 ° C
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. ~ 0.9 @ 20 ° C
Relative density	
Volumetric density	There is no specific test data available. It is
Resolution (s)	insoluble in water.
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. 46 cSt
Viscosity	@ 40 ° C
Explosive properties	Insufficient data.
Explosive under the influence of flame	Insufficient data.
Oxidizing properties	Insufficient data.
Descriptions	No other information is available.
9.2. Other informations	
Other informations	No other information is available.
Refractive index	No other information is available.
Particle size	No other information is available.
Molecular weight	No other information is available.
Volatility	No other information is available.
Saturation concentration	No other information is available.
Critical temperature	No other information is available.
Volatile organic compound	No other information is available.

SECTION 10: Stability and reactivity

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10.1. Reaction

Reaction No other information is available.

10.2. Chemical stability

Stability No other information is available.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No other information is available.

10.4. Conditions to avoid Conditions to avoid No other information is available.

10.5. Incompatible materials Materials to avoid No other information is available.

10.6. Hazardous decomposition products

Hazardous decomposition products No other information is available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects Toxic

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

Other health effects Based on available data, the classification criteria are not met.

Acute toxicity - oral Summary

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

Notes (oral LD₅₀) available data, the classification criteria are not met.

Acute toxicity - dermal Summary

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

Notes (dermal LD₅₀) available data, the classification criteria are not met.

Acute toxicity - inhalation

Summary

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

Notes (inhalation LC₅₀) available data, the classification criteria are not met.

Skin corrosion / irritation

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.

Serious eye damage / irritation

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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.
Respiratory sensitization	
Summary	Based on available data, the classification criteria are not met. Based on
Respiratory tracts sensitization	available data, the classification criteria are not met.
Skin sensitization	
Summary	Based on available data, the classification criteria are not met. Based on
Skin sensitization	available data, the classification criteria are not met.
Germ cell mutagenicity	
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.
Carcinogenicity	
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.
IARC carcinogenicity	Not listed.
NTP carcinogenicity	Not listed.
Reproductive toxicity	
Summary	Based on available data, the classification criteria are not met. Based on
Reproductive system toxicity fertility	available data, the classification criteria are not met.
Reproductive system toxicity developmental	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure Summary	
	Based on available data, the classification criteria are not met.
BHOT- single exposure	Based on available data, the classification criteria are not met.
Target organs	There are no known specific target organs.
Specific target organ toxicity - repeated exposure Summary	
	Based on available data, the classification criteria are not met.
BHOT- repeated exposure	Based on available data, the classification criteria are not met.

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Target organs	There are no known specific target organs.
Aspiration hazard	
Summary	Based on available data, the classification criteria are not met. Based on
Aspiration hazard	available data, the classification criteria are not met.
Toxicokinetics	No other information is available.
General information	No other information is available.
Breathing	Based on available data, the classification criteria are not met. Based on
Swallowing	available data, the classification criteria are not met. Based on available data,
Contact with the skin	the classification criteria are not met. Based on available data, the
Eye contact	classification criteria are not met.
Acute and chronic health hazards	No other information is available.
Contact ways	No other information is available.
Target organs	There are no known specific target organs.
Medical symptoms	No other information is available.
Medical opinions	No other information is available.

SECTION 12: Ecological information

Ecotoxicity	No other information is available.
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	Required information is not available.
Acute toxicity - aquatic plants	Required information is not available.
Acute toxicity microorganisms	Required information is not available.
Acute toxicity - terrestrial organisms	Required information is not available.
Chronic aquatic toxicity	
Summary	Based on available data, the classification criteria are not met.

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**Chronic toxicity- in fish
early life stage**

Required information is not available.

**Short term toxicity - embryo
and early larval stages**

Required information is not available.

**Chronic toxicity- aquatic
invertebrates**

Required information is not available.

12.2. Persistence and degradability

Persistence and degradability

No other information is available.

Phototransformation

No other information is available.

Stability (hydrolysis)

No other information is available.

Biodegradation

There is no specific test data available. No

Biological oxygen demand

other information is available.

Chemical oxygen demand

No other information is available.

12.3. Bioaccumulative potential

Bioaccumulative potential

There is no specific test data available. There is

Partition coefficient

no specific test data available.

12.4. Mobility in soil

Mobility

Based on available data, the classification criteria are not met. No other

**Adsorption / desorption
coefficient**

information is available.

Henry's law constant

No other information is available.

Surface tension

No other information is available.

12.5. Results of PBT and vPvB assessment

**PBT and vPvB
the results of the assessment**

It is not relevant.

12.6. Other adverse effects Other

adverse effects

No other information is 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.

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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.

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

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.

Republic of Turkey Ministry of Environment and Urbanization Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures

EU legislation

<https://echa.europa.eu>

Commission Regulation (EU) No 453/2010 of 20 May 2010.

Guide

Safety Data Sheet for substances and preparations.

SECTION 16: Other information

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**In the safety data sheet
used abbreviations and
acronyms**

EU: European Union DMSO:
Dimethyl sulfoxide
PPE: Personal protective equipment
TC: Republic of Turkey
TWA: Workplace exposure limits. UZEM: National
Poison Information Center. CAS: Chemical
Abstracts Service. GHS: Global Harmonized
System.
IATA: International Air Transport Association. IMDG: International
Maritime Dangerous Goods. PBT: Persistent, Bioaccumulative
and Toxic substance.
REACH: EU Regulation (EC) No 1907/2006 on Registration, Evaluation, Authorization and Restriction of
Chemicals.
vPvB: Very Persistent, Very Bioaccumulative.

General information

Only trained personnel should use this material. This document contains important information for the safe storage, transport and use of this product. The information in this document should be brought to the attention of the person responsible for security issues in your organization. Material Safety Data Sheet Distribution: The information in this document should be made available to all persons who can handle this 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. Disclaimer: This information is based on our current knowledge and the product is described for the purpose of health, safety and environmental requirements only.

**Main literature references and sources of
information**

This SDS is based on the information received from our raw material suppliers.

Dated December 11, 2013 and 28848

Not classified as environmentally hazardous. Not classified as physically hazardous.

**According to the regulation numbered
classification conditions**

Not classified as hazardous to health: Supplier information

Education advice

Untrained personnel should not be used.

Revision comments by

This is the first arrangement.

Sevda ŞAHAN Certified Safety Data Sheet Maker (Certificate No: GBF01.23.08; Date:
03.11.2018-03.11.2021)

New date of issue

25.03.2020

How many regulations

0

Preparation date

25.03.2020

SDS No

20689

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 can be 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.