

## SAFETY DATA SHEET GRAVITY 46

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

SECTION 1: Identification of the	substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product name	GRAVITY 46	
Internal identification	DIN 51514 Part2 (HLP); DENISON HF-0,HF-1,HF-2	
1.2. Relevant identified uses of th	ne substance or mixture and uses advised against	
Identified uses	Hydraulic oil.	
1.3. Details of the supplier of the	safety data sheet	
Supplier	ATAK MADENI YAG PAZ.SAN.VE TIC.AS 10032 Sok. No:13 ÇIGLI/IZMIR TURKEY T: 0232 328 3128 www.atakoil.com info@atakoil.com	
Contact person	Hazal ÖNMAL (Mrs.) - hazalonmal@atakoil.com	
1.4. Emergency telephone number		
Emergency telephone	Atak Lubricants: +90 232 3283128	
SECTION 2: Hazards identification	n	
2.1. Classification of the substand	ce or mixture	
Classification (SI 2019 No. 720) Physical hazards	Not Classified	
Health hazards	Not Classified	
Environmental hazards	Not Classified	
Classification (Regulation (EC) No. 1272/2008 CLP).		
2.2. Label elements		
Hazard statements	NC Not Classified	
2.3. Other hazards		
No data available.		
SECTION 3: Composition/information	ation on ingredients	

3.2. Mixtures

PARAFFINIC, HYDROTREAT	
CAS number: 90640-95-2	EC number: 292-617-9
Classification	
Not Classified	
Phosphorodithioic acid, 0,0-d	li-C1-14-alkyl esters, zinc salts <1%
CAS number: 68649-42-3	EC number: 272-028-3
Classification	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318 Aquatic Chronic 2 - H411	
Calcium sulfonates	<1%
CAS number: 64521-08-0	
Classification	
Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
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SECTION 4: First aid measures	ments is displayed in Section 16.
1.1. Description of first aid mea	
nhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any
	discomfort continues.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thorough with water. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
4.2. Most important symptoms	and effects, both acute and delayed
nhalation	No specific symptoms known.
ngestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	Irritation of eyes and mucous membranes. Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.
Eye contact 4.3. Indication of any immediate	
4.3. Indication of any immediate	include the following: Redness. Pain.
4.3. Indication of any immediate	include the following: Redness. Pain. e medical attention and special treatment needed No specific recommendations. If in doubt, get medical attention promptly.
	include the following: Redness. Pain. e medical attention and special treatment needed No specific recommendations. If in doubt, get medical attention promptly.
4.3. Indication of any immediate Notes for the doctor SECTION 5: Firefighting measu	include the following: Redness. Pain. e medical attention and special treatment needed No specific recommendations. If in doubt, get medical attention promptly.
4.3. Indication of any immediate Notes for the doctor SECTION 5: Firefighting mease 5.1. Extinguishing media	include the following: Redness. Pain.  e medical attention and special treatment needed No specific recommendations. If in doubt, get medical attention promptly.  ures The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Protective actions during firefighting	Avoid breathing fire gases or vapours. Fight fire from safe distance or protected location. Control run-off water by containing and keeping it out of sewers and watercourses.				
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.				
SECTION 6: Accidental release m	easures				
6.1. Personal precautions, protect	ive equipment and emergency procedures				
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with eyes and prolonged skin contact.				
6.2. Environmental precautions					
Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges int watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.				
6.3. Methods and material for cont	tainment and cleaning up				
Methods for cleaning up	Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.				
6.4. Reference to other sections					
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.				
SECTION 7: Handling and storage	э				
7.1. Precautions for safe handling					
Usage precautions	Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.				
7.2. Conditions for safe storage, ir	ncluding any incompatibilities				
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs.				
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.				
SECTION 8: Exposure controls/Pe	ersonal protection				
8.1. Control parameters					
Occupational exposure limits					
No data available.					
8.2. Exposure controls					
Protective equipment					
Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.				
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.				
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.				

Carcinogenicity

Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.
Hygiene measures	Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.
SECTION 9: Physical and chemic	cal properties
9.1. Information on basic physica	l and chemical properties
Appearance	Liquid

Appearance	Liquid.		
Flash point	Min.220 °C		
Bulk density	0,88-0,90 g/cm³ @15°C (ASTM D 4052)		
Viscosity	44,00-48,0 mm²/s @ 40°C		
Penetration			
9.2. Other information			
Other information	None.		
SECTION 10: Stability and reactive	rity		
10.1. Reactivity			
Reactivity	There are no known reactivity hazards associated with this product.		
10.2. Chemical stability			
Stability	Stable at normal ambient temperatures.		
10.3. Possibility of hazardous reactions			
Possibility of hazardous reactions	No potentially hazardous reactions known.		
10.4. Conditions to avoid			
Conditions to avoid	Avoid excessive heat for prolonged periods of time.		
10.5. Incompatible materials			
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.		
10.6. Hazardous decomposition p	roducts		
Hazardous decomposition products	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).		
SECTION 11: Toxicological information			
11.1. Information on toxicological	effects		
Information on hazard classes as defined in Regulation (EC) No 1272/2008			
Serious eye damage/irritation			
Serious eye damage/irritation	No information available.		
Germ cell mutagenicity			
Genotoxicity - in vitro	Not available information		
Genotoxicity - in vivo	Not available information		

Reproductive toxicity - Reproductive toxicity - Artillity - Not available information Reproductive toxicity - Artillity - Not available information Reproductive toxicity - Artillity -		
Reproductive toxicity - etry         No information available information           Reproductive toxicity - airple exposure         Internation available information           Specific target organ toxicity - struct desposure         Internation available information           Specific target organ toxicity - struct desposure         Internation available information           Specific target organ toxicity - struct desposure         Internation available information           Intelaction         Gas or vapour in high concentrations may initiate the respiratory system. Symptoms following overwexposure may include the following: Coughing.           Intelaction         May cause disconfort if svallowed.           Specific target organ toxicity - struct desposure         Initiating to eyas.           Interaction on other hazard         Initiating to eyas.           Specific target organ toxicity - struct desposure         Initiating to eyas.           Intracting to eyas.         Initiating to eyas.           Intraction on other hazard         Initiating to eyas.           Specific target organ toxicity - struct desposure         Initiating to eyas.           Intraction or desposure         Initiating to eyas.           Specific target organ toxicity and the degradability of this product.         Initiating to eyas.           Intraction organization organization organization.         Initiating to eyas.           Intracting to eyas.	Carcinogenicity	Not available information
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STOT - single exposure     not available information       Specific target organ toxicity - repeated exposure     Not available information       STOT - repeated exposure     Not available information       Inhelation     Gas or vapour in high concentrations may initiate the respiratory system. Symptoms following overexposure may include the following: Coughing.       Ingestion     May cause disconfort if swallowed.       Skin contact     Liquid may initiate skin.       Eye contact     Liquid may initiate skin.       Eye contact     Initiating to eyes.       11.2 Information on other hazards     Initiating to eyes.       SECTION 12: Ecological Information     Section of the available.       21.1 Toxicity     Hamful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.       12.1. Toxicity     No data available.       12.2. Persistence and degradability     There are no data on the degradability of this product.       12.3. Bioaccumulative potential     No data available on bioaccumulation.       12.4. Mobility in soil     No data available on bioaccumulation.       12.5. Results of PBT and vPVB     The product does not contain any substances classified as PBT or vPvB.       23.6. Other adverse effects     No information required.       12.6. Other adverse effects     No information required.       12.6. Check adverse of offecta     No information required.       23.6. Other adverse eff	Reproductive toxicity - development	No information available
Specific target organ toxicity - repeated exposure         Not available information           STOT - repeated exposure         Not available information           Inhalation         Gas or vapour in high concentrations may imitate the respiratory system. Symptoms following overexposure may include the following. Coughing.           Ingestion         May cause disconfort if swallowed.           Skin contact         Liquid may imitate skin.           Eye contact         Initiating to eyes.           11.2 Information on other hazards         Initiating to eyes.           SECTION 12: Ecological Informator         Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.           12.1. Toxicity         No data available.           12.2. Prostetonce and degradability         There are no data on the degradability of this product.           12.3. Bioaccumulative potential         No data available on bioaccumulation.           12.4. Mobility in soil         No data available on bioaccumulation.           12.5. Results of PST and VPDs ascenter         This product is partly miscible with water and may spread in the aquatic environment.           12.6. Cher adverse effects         No information required.           12.6. Endocrine disrupting properties         Transport was spread in the aquatic environment.           12.7. Brokent of strupting properties         This product does not contain any substances classified as PBT or vPvB. <th>Specific target organ toxicity - sing</th> <th>gle exposure</th>	Specific target organ toxicity - sing	gle exposure
STOT - repeated exposure     Not available information       Inhelation     Gas or vapour in high concentrations may initiate the respiratory system. Symptoms following overexposure may include the following: Coughing.       Ingestion     May cause discomfort if swallowed.       Skin contact     Liquid may initiate skin.       Eye contact     Initiating to eyes.       11.2 Information on other hazards     Initiating to eyes.       Section 12: Ecological Information     Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.       12.1. Information on other hazards     Initiating to aquatic organisms, may cause long-term adverse effects in the aquatic environment.       12.1. Stoodity     No data available.       12.2. Persistence and degradability     There are no data on the degradability of this product.       12.3. Bioaccumulative potential     No data available on bioaccumulation.       12.4. Mobility in soil     No data available on bioaccumulation.       12.5. Results of PBT and VPAB     The product is parity miscible with water and may spread in the aquatic environment.       12.6. Encodrine disrupting properties     Information required.       12.6. Other adverse effects     No information required.       12.7. Grood	STOT - single exposure	not available information
Inhalation         Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.           Ingestion         May cause discomfort if swallowed.           Skin contact         Equid may irritate skin.           Eye contact         Irritating to eyes.           11.2 Information on other hazards         Irritating to eyes.           SECTION 12: Ecological information         Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.           12.1. Toxicity         Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.           12.1. Toxicity         No data available.           12.2. Persistence and degradability         There are no data on the degradability of this product.           12.3. Bioaccumulative potential         No data available on bioaccumulation.           12.4. Mobility nool         No data available on bioaccumulation.           12.5. Results of PBT and vPvB assessment         This product does not contain any substances classified as PBT or vPvB.           12.6. Coher adverse effects         This product does not contain any substances classified as PBT or vPvB.           assessment         No information required.           12.6. Coher adverse effects         No information required.           SECTION 13. Disposal consider         Section required.           SECTION 13		
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1.1.2 Information on other hazards         SECTION 12: Ecological information or other hazards         Bicological information or other hazards         Bicological information or other hazards         Bicological information or other hazards         Notata available or graduability of this product.         12.2. Persistence and degradability         Toxicity         Notata available.         12.3. Bioaccumulative potential         Notata available on bioaccumulation.         12.4. Mobility in soil         Mobility of PBT and vPvB         Toxicut does not contain any substances classified as PBT or vPvB.         assessment         12.6. Other adverse effects         No information required.         SECTION 13: Disposal considerations         Disposal considerations         Disposal methods         Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, severs or watercourses.<	Skin contact	Liquid may irritate skin.
Information on other hazards SECTION 12: Ecological informative SECTION 12: Ecological informative Section 12: Ecological informative Section 12: Ecological informative Section 12: Consistence and degradability Toxicity Toxicity Toxicity Toxicity Toxicity Tore are no data available. 12.2. Persistence and degradability There are no data on the degradability of this product. 12.3. Bioaccumulative potential Bioaccumulative potential Bioaccumulative potential Section 13: Disposel or product is parity miscible with water and may spread in the aquatic environment. 12.5. Results of PBT and vPvB Section 4 v	Eye contact	Irritating to eyes.
SECTION 12: Ecological information         Ecotoxicity       Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       No data available.         12.2. Persistence and degradability       No data available.         12.3. Bioaccumulative potential       There are no data on the degradability of this product.         12.4. Mobility in soil       Mo data available on bioaccumulation.         12.4. Mobility in soil       No data available on bioaccumulation.         12.5. Results of PBT and vPvB assessment       The product is partly miscible with water and may spread in the aquatic environment.         12.6. Endocrine disrupting properties       This product does not contain any substances classified as PBT or vPvB.         assessment       This product does not contain any substances classified as PBT or vPvB.         assessment       This product does not contain any substances classified as PBT or vPvB.         assessment       This product does not contain any substances classified as PBT or vPvB.         assessment       This product does not contain any substances classified as PBT or vPvB.         assessment       This product does not contain any substances classified as PBT or vPvB.         assessment       This product does not contain any substances classified as PBT or vPvB.         assessment       This product does not contain any substances classified as PBT or vPvB.	11.2 Information on other hazards	3
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12.4. Mobility in soil       The product is partly miscible with water and may spread in the aquatic environment.         12.5. Results of PBT and vPvB assessment       This product does not contain any substances classified as PBT or vPvB.         Results of PBT and vPvB assessment       This product does not contain any substances classified as PBT or vPvB.         12.6. Endocrine disrupting properties       For vPvB.         Endocrine disrupting properties       Vertical v	12.3. Bioaccumulative potential	
Mobility       The product is partly miscible with water and may spread in the aquatic environment.         12.5. Results of PBT and vPvB assessment       This product does not contain any substances classified as PBT or vPvB.         Results of PBT and vPvB       This product does not contain any substances classified as PBT or vPvB.         12.6 Endocrine disrupting properties       This product does not contain any substances classified as PBT or vPvB.         Endocrine disrupting properties       This product does not contain any substances classified as PBT or vPvB.         12.6 Endocrine disrupting properties       This product does not contain any substances classified as PBT or vPvB.         Endocrine disrupting properties       The product does not contain any substances classified as PBT or vPvB.         12.6 Endocrine disrupting properties       This product does not contain any substances classified as PBT or vPvB.         12.6. Other adverse effects       No information required.         SECTION 13: Disposal considerations       No information required.         13.1. Waste treatment methods       Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, sewers or watercourses.	Bioaccumulative potential	No data available on bioaccumulation.
12.5. Results of PBT and vPvB assessment         Results of PBT and vPvB assessment         12.6 Endocrine disrupting properties         Endocrine disrupting properties         12.6. Other adverse effects         Other adverse effects         No information required.         SECTION 13: Disposal considerations         13.1. Waste treatment methods         Disposal methods         Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, sewers or watercourses.	12.4. Mobility in soil	
Results of PBT and vPvB assessment       This product does not contain any substances classified as PBT or vPvB.         12.6 Endocrine disrupting properties       Section adverse effects         Endocrine disrupting properties       No information required.         21.6. Other adverse effects       No information required.         SECTION 13: Disposal considerations       Section adverse effects         13.1. Waste treatment methods       Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal methods	Mobility	The product is partly miscible with water and may spread in the aquatic environment.
assessment  12.6 Endocrine disrupting properties  Endocrine disrupting properties  Endocrine disrupting properties  12.6. Other adverse effects Other adverse effects Other adverse effects No information required.  SECTION 13: Disposal considerations  13.1. Waste treatment methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, sewers or watercourses.	12.5. Results of PBT and vPvB as	ssessment
properties         Endocrine disrupting properties         12.6. Other adverse effects         Other adverse effects         No information required.         SECTION 13: Disposal considerations         13.1. Waste treatment methods         Disposal methods       Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, sewers or watercourses.	Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
12.6. Other adverse effects       No information required.         SECTION 13: Disposal considerations       SECTION 13: Disposal considerations         13.1. Waste treatment methods       Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, sewers or watercourses.	12.6 Endocrine disrupting properties	
Other adverse effects       No information required.         SECTION 13: Disposal considerations         13.1. Waste treatment methods       Disposal of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, sewers or watercourses.	Endocrine disrupting properties	
SECTION 13: Disposal considerations         13.1. Waste treatment methods         Disposal methods         Disposal methods         Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, sewers or watercourses.	12.6. Other adverse effects	
13.1. Waste treatment methods         Disposal methods         Disposal methods         Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, sewers or watercourses.	Other adverse effects	No information required.
Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, sewers or watercourses.	SECTION 13: Disposal considera	tions
Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, sewers or watercourses.	13.1. Waste treatment methods	
SECTION 14: Transport information	Disposal methods	Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or
	SECTION 14: Transport informati	on

#### General

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

### 14.1. UN number

UN number or ID number

Not applicable.

## 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

## 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

#### 14.6. Special precautions for user

Not applicable.

Guidance

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Maritime transport in bulk according to IMO instruments

Transport in bulk according toNot applicable.Annex II of MARPOL 73/78 andthe IBC Code

### **SECTION 15: Regulatory information**

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

Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information		
Key literature references and sources for data	This SDS is prepared based on the information received from the product raw material.	
Revision comments	Revised formulation.	
Issued by	Hazal KUBİLAY / Teknology Center Laboratory Manager KIMCERT Certificate Number :KDU01.26	
Revision date	02/01/2020	
Revision	0.1	
Supersedes date	16/02/2016	
SDS number	20301	

	Hazard	statements	in	full
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H315 Causes skin irritation.H317 May cause an allergic skin reaction.H318 Causes serious eye damage.H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.