

# SAFETY DATA SHEET

TURBOT 20W50 CC/SC

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	SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product name	TURBOT 20W50 CC/SC	
Internal identification	API CC/SC	
1.2. Relevant identified uses of the	he substance or mixture and uses advised against	
Identified uses	Engine 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 numb	er	
Emergency telephone	Atak Lubricants: +90 232 3283128	
SECTION 2: Hazards identification	on	
2.1. Classification of the substan	ce or mixture	
Classification (SI 2019 No. 720) Physical hazards	Not Classified	
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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/inform	ation on ingredients	

3.2. Mixtures

HYDROCARBONS, C20-50,	SOLVENT DEWAXED HEAVY 80-95%
PARAFFINIC, HYDROTREA	
CAS number: 90640-95-2	EC number: 292-617-9
Classification Not Classified	
Phosphorodithioic acid, O,O-	di-C1-14-alkyl esters, zinc salts <1%
CAS number: 68649-42-3	EC number: 272-028-3
M factor (Acute) = 1	
<b>Classification</b> Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412	
Distillates (petroleum), solver	t-refined heavy paraffinic <1%
CAS number: 64741-88-4	EC number: 265-090-8
<b>Classification</b> Acute Tox. 4 - H332	
Distillates (petroleum), hydrol	reated light paraffinic <1%
CAS number: 64742-55-8	EC number: 265-158-7
<b>Classification</b> Asp. Tox. 1 - H304	
The full text for all hazard state	ements is displayed in Section 16.
SECTION 4: First aid measure	
4.1. Description of first aid mea	asures
Inhalation	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 thoroughl 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
Inhalation	No specific symptoms known.
Ingestion	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.
	5
4.3. Indication of any immedia	e medical attention and special treatment needed

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. 5.2. Special hazards arising from the substance or mixture Specific hazards Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m<sup>3</sup>. 5.3. Advice for firefighters Protective actions during Avoid breathing fire gases or vapours. Fight fire from safe distance or protected location. Control run-off firefighting water by containing and keeping it out of sewers and watercourses. Special protective equipment for Use protective equipment appropriate for surrounding materials. firefighters SECTION 6: Accidental release measures 6.1. Personal precautions, protective 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 into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. 6.3. Methods and material for containment 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** 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, including 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/Personal 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.
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	al properties
9.1. Information on basic physical	and chemical properties
Appearance	Liquid.
Flash point	Min.220 °C
Bulk density	0,87-0,90 g/cm³ @15°C (ASTM D 4052)
Viscosity	16,00-20,00 mm²/s @ 100°C
Penetration	
9.2. Other information	
Other information	None.
SECTION 10: Stability and reactiv	ity
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 read	tions
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 inform	nation
44.4. Information on toxicological	

11.1. Information on toxicological effects

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Serious eye damage/irritation

Serios eye damagediritation       No information available.         Gern duridgenicity       Not available information         Genotoxicity - In vivo       Not available information         Carchogenicity       Not available information         Reproductive toxicity       Not available information         Reproductive toxicity - femility       Not available information         Reproductive toxicity - femility       Not available information         Reproductive toxicity - femility       Not available information         Specific target organ toxicity - represent       Not available information         Specific target organ toxicity - represent       Not available information         Specific target organ toxicity - represent       Not available information         Specific target organ toxicity - represent       Not available information         Specific target organ toxicity - represent       Not available information         Inhalation       Ges or vapour in high concentrations may irritate the respiratory system. Symptoms following overseposure may include the following: Couphing.         Integrate       Liquid may irritate skin.         Information on ther hazards       Intrading to equalis corganisms, may cause long-term adverse effects in the aquatic environment.         12.1 fromation on ther hazards       Intrading to equalis caparisms, may cause long-term adverse effects in the aquatic environment.	Cancel and analysis of the second s				
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Specific target de aposure       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       Liquid may irritate skin.         Eye contact       Irritating to eyes.         11.2 Information on other hazards       Irritating to eyes.         SECTION 12: Ecological informators       Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         SECTION 12: Ecological informator       No data aquatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       No data aquatic organisms, may cause long-term adverse effects in the aquatic environment.         Ecological information on ingreduent.       Ecological information on ingreduent.         Ecological information on ingreduent.       Inter actual able.         Ecological information on ingreduent.       Inter actual able.         Ecological information on ingreduent.       0.1 < L(E)C50 ≤ 1         Mactor (Acute)       0.1 < L(E)C50 ≤ 1         Mactor (Acute)       1         Ecological information       1         Ecological information       1         Ecological information       1         Ecological information </th <th>Specific target organ toxicity - repeated exposure       Not available information         StoT - repeated 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       Liquid may irritate skin.         Eye contact       Irritating to eyes.         112 Information on other hazards       Irritate skin.         SECTION 12: Ecological information       Irritate skin.         SECTION 12: Ecological information       Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       No data available.         Ecological Information on inprotein       Prosestomo action in protein         LE(C)p       0.1 &lt; L(E)C50 ≤ 1         Mactor (Acute)       1         12.1. Prosistence and degradability       1 &lt; L(E)C50 ≤ 1         Mactor (Acute)       1         12.2. Persistence and degradability       1 &lt; L(E)C50 ≤ 1         Mactor potential       No data available on bioaccumulation.         12.3. Bioaccumulative potential       No data available on bioaccumulation.         12.4. Mobility in soil       Notal available on bioaccumulation.         12.1. Sobili</th> <th>Specific target organ toxicity - sing</th> <th>gle exposure</th>	Specific target organ toxicity - repeated exposure       Not available information         StoT - repeated 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       Liquid may irritate skin.         Eye contact       Irritating to eyes.         112 Information on other hazards       Irritate skin.         SECTION 12: Ecological information       Irritate skin.         SECTION 12: Ecological information       Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       No data available.         Ecological Information on inprotein       Prosestomo action in protein         LE(C)p       0.1 < L(E)C50 ≤ 1         Mactor (Acute)       1         12.1. Prosistence and degradability       1 < L(E)C50 ≤ 1         Mactor (Acute)       1         12.2. Persistence and degradability       1 < L(E)C50 ≤ 1         Mactor potential       No data available on bioaccumulation.         12.3. Bioaccumulative potential       No data available on bioaccumulation.         12.4. Mobility in soil       Notal available on bioaccumulation.         12.1. Sobili	Specific target organ toxicity - sing	gle exposure		
STOT - repeated exposure       Net 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 disconfort if swallowed.         Skin contact       Liquid may irritate skin.         Eye contact       Liquid may irritate skin.         Eye contact       Liquid may irritate skin.         Information on other hazards       Irritating to eyes.         Information on other hazards       Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         SECTION 12: Ecological Information       No data available.         Ecological information on ingrees       No data available.         Ecological information on ingrees       No data available.         Ecological information on ingrees       Prosphorodithioc acid, O,O-di-C1-14-allyl esters, zinc satts         Acute aquatic toxicity       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         12: Persistence and degradability       The arcutatequability of this product.         13: Biocurulative potential       No data available on bioeccurulation.	STOT - repeated exposure       Not available information         Inhalation       Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following coughing.         Ingestion       May cause disconfort if swallowed.         Skin contact       Liquid may irritate skin.         Eye contact       uity importants in the second of the swallowed.         Tormation on other hazards       Irritate skin.         Formation on other hazards       Irritate skin.         SECTION 12: Ecological information       Harmful to organisms, may cause long-term adverse effects in the aquatic environment.         12.1 Information on ther hazards       Irritate skin.         Foctoxicity       No atarailable.         Ecological information on there hazards       Irritate skin.         Foctoxicity       No latarailable.         Ecological information on target       Irritate skin.         Ecological information on target       Instruction cadd, 0,0-di-C1-14-alityl esters, zinc salts         Ecological information on target       Instruction cadd, 0,0-di-C1-14-alityl esters, zinc salts         Ecological information on target       Instruction cadd, 0,0-di-C1-14-alityl esters, zinc salts         Ecological information on target       Instruction the degradability of this product.         Ecological information on target       Instructic(E) Soi ≤ 1         In fa	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 Liquid may irritate skin. Eye contact Irritating to eyes. 11.2 Information on other hazards Exercted the ratards SECTION 12: Ecological Information SECTION 12: Ecological	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       Liquid may irritate skin.         Eye contact       Irritating to eyes.         11.1 Information on other hazards       Irritating to eyes.         Information on other hazards       Irritating to eyes.         SECTION 12: Ecological informatures       Irritating to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       Na data available.         Ecological information on ingredients       Irritating to eyes.         Toxicity       No data available.         Ecological information on ingredients       Irritate skin.         LE(C)m       0.1 < L(E)CS0 ≤ 1         Mactor (Acute)       1         12.2. Persistence and degradability       1         Persistence and degradability       1         12.3. Bioaccumulative potential       No data available on bioaccumulation.         12.4. Mobility in soil       No data available on bioaccumulation.         12.4. Mobility in soil       No data available on bioaccumulation.         12.5. Results of PBT and vPvB       This product does not contain any substances classified as PBT or vPvB. <th>Specific target organ toxicity - rep</th> <th>eated exposure</th>	Specific target organ toxicity - rep	eated exposure		
Ingestion       May cause discomfort if swallowed.         Skin contact       Liquid may irritate skin.         Eye contact       Irritating to eyes.         11.2 Information on other hazards       Irritating to eyes.         SECTION 12: Ecological information         Second digraduatic corganisms, may cause long-term adverse effects in the aquatic environment.         11.1 Toxicity         Toxicity         No data autic torganisms, may cause long-term adverse effects in the aquatic environment.         Ecological information on ingredUst         Fhosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxiUt         LE(C)@       0.1 < L(E)C50 ≤ 1         Marcor (Acute)       1       1         12.2. Persistence and degradability         Tota degradability         Tota degradability         Acute aquatic toxiUt         Second degradability <t< th=""><th>Ingestion       May cause discomfort if swallowed.         Skin contact       Liquid may initiate skin.         Eye contact       Initiating to eyes.         11.2 Information on other hazards       Information on other hazards         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.         Ecological information on ingred/exit       Phosphorodithiolo acid, O,O-dI-C1-14-alkyl esters, zinc satts         Acute aquatic toxicit       1         LE(C)∞       0.1 &lt; L(E)C50 ≤ 1         M factor (Acute)       1         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 is partly miscible with water and may spread in the aquatic environment.</th><th>STOT - repeated exposure</th><th>Not available information</th></t<>	Ingestion       May cause discomfort if swallowed.         Skin contact       Liquid may initiate skin.         Eye contact       Initiating to eyes.         11.2 Information on other hazards       Information on other hazards         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.         Ecological information on ingred/exit       Phosphorodithiolo acid, O,O-dI-C1-14-alkyl esters, zinc satts         Acute aquatic toxicit       1         LE(C)∞       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         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 is partly miscible with water and may spread in the aquatic environment.	STOT - repeated exposure	Not available information		
Ingestion       May cause discomfort if swallowed.         Skin contact       Liquid may irritate skin.         Eye contact       Irritating to eyes.         11.2 Information on other hazards       Irritating to eyes.         SECTION 12: Ecological information         Second digraduatic corganisms, may cause long-term adverse effects in the aquatic environment.         11.1 Toxicity         Toxicity         No data autic torganisms, may cause long-term adverse effects in the aquatic environment.         Ecological information on ingredUst         Fhosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxiUt         LE(C)@       0.1 < L(E)C50 ≤ 1         Marcor (Acute)       1       1         12.2. Persistence and degradability         Tota degradability         Tota degradability         Acute aquatic toxiUt         Second degradability <t< th=""><th>Ingestion       May cause discomfort if swallowed.         Skin contact       Liquid may initiate skin.         Eye contact       Initiating to eyes.         11.2 Information on other hazards       Information on other hazards         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.         Ecological information on ingredHert       Phosphorodithiolic acid, O,O-dI-C1-14-alkyl esters, zinc satts         Acute aquatic toxicity       0.1 &lt; L(E)C50 ≤ 1         Mactor (Acute)       1         12.2. Persistence and degradability       Token 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.         12.4. Mobility in soil       Toter are no data on the degradability of this product.         12.4. Mobility in soil       To perduct is partly miscible with water and may spread in the aquatic environment.         12.5. Results of PBT and vPvB       This product does not contain any substances classified as PBT or vPvB.</th><th></th><th></th></t<>	Ingestion       May cause discomfort if swallowed.         Skin contact       Liquid may initiate skin.         Eye contact       Initiating to eyes.         11.2 Information on other hazards       Information on other hazards         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.         Ecological information on ingredHert       Phosphorodithiolic acid, O,O-dI-C1-14-alkyl esters, zinc satts         Acute aquatic toxicity       0.1 < L(E)C50 ≤ 1         Mactor (Acute)       1         12.2. Persistence and degradability       Token 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.         12.4. Mobility in soil       Toter are no data on the degradability of this product.         12.4. Mobility in soil       To perduct is partly miscible with water and may spread in the aquatic environment.         12.5. Results of PBT and vPvB       This product does not contain any substances classified as PBT or vPvB.				
Ingestion       May cause disconfort if swallowed.         Skin contact       Liquid may irritate skin.         Eye contact       Irritating to eyes.         11.2 Information on other hazards       Irritating to eyes.         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.         Ecological information on ingredie       Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxity       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         12.2. Persistence and degradability       1 to equata on the degradability of this product.         12.3. Bioacumulative potential       Kotata aquatic toxity	IngestionMay cause discomfort if swallowed.Skin contactiquid may irritate skin.Eye contactirritating to eyes.11.2 Information on other hazardsirritating to eyes.Information on other hazardsISECTION 12: Ecological informatorIse cological information on ingreed with a quatic organisms, may cause long-term adverse effects in the aquatic environment.12.1. ToxicityIse cological information on ingreed within a quatic organisms, may cause long-term adverse effects in the aquatic environment.Ise cological information on ingreed within a quatic organisms, may cause long-term adverse effects in the aquatic environment.Ise cological information on ingreed within a quatic organisms, may cause long-term adverse effects in the aquatic environment.Ise cological information on ingreed within a quatic organisms, may cause long-term adverse effects in the aquatic environment.Ise cological information on ingreed within a quatic organisms, may cause long-term adverse effects in the aquatic environment.Ise cological information on ingreed within acid, Ox-di-C1-14-elkyl esters, zinc astatIse colspan="2">Ise colspan="2">Ise colspan="2">Ise colspan="2">Ise colspan="2">Ise colspan="2">Ise colspan="2">Ise colspan="2">Ise colspan="2"Ise colspan="2"	Inhalation			
Skin contact       Liquid maj irritate skin.         Eye contact       Irritating to eyes.         11.2 Information on other hazards       Information on other hazards         Information on other hazards       Information on other hazards         SECTION 12: Ecological Information       Harmful to equatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       No data aquatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       No data aquatic base.         Ecological Information on Ingrediettic       Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc safts         Acute aquatic toxizit       Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc safts         Acute aquatic toxizit       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         12.2. Persistence and degradability       1         Presistence and degradability       There are to data on the degradability of this product.         12.3. Bioaccumulative potential       No data are to bioaccumulation.	Skin contact       Liquid may irritate skin.         Eye contact       irritating to eyes.         11.2 Information on ther hazards:       irritating to eyes.         Information on ther hazards:       irritating to eyes.         SECTION 12: Ecological informet/       Harmful to equatic organisms, may cause long-term adverse effects in the aquatic environment.         Ecotoxicity       Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       No data available.         Ecological information on ingredients:       Fosphorodithiolic acid, O,O-di-C1-14-alkyl estens, zinc salts         Acute aquatic toxicity       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         12.2. Persistence and degradability       1         Prosistence and degradability       1         13. Bioaccumulative potential       Notata available on bioaccumulation.         12.1. Aubility in soil       1         14. Mobility in soil       Notata available on bioaccumulation.         12.4. Mobility in soil       Notata available on bioaccumulation.         12.5. Results of PBT and vPvB       To product los partly miscible with water and may spread in the aquatic environment.	Ingestion			
Eye contact       Initiating to eyes.         11.2 Information on other hazards         Information on other hazards         SECTION 12: Ecological Informators         SECTION 12: Ecological Informators         Becotoxicity       Harmful to eyes.         Acute aquatic corganisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       No data ≠vailable.         Ecological Information on ingreder       Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxicy       0.1 < L(E)C50 ≤ 1         M factor (Acute)       0.1 < L(E)C50 ≤ 1         M factor (Acute)       0.1 < L(E)C50 ≤ 1         M factor (Acute)       0.1 < L(E)C50 ≤ 1         M factor Macute       1         Persistence and degradability       Total on the degradability of this product.         12.3. Bioaccumulative potential       No data =valiable on bioaccumulation.	Eye contact       Initiating to eyes.         11.2 Information on other hazards:         Information on other hazards:         SECTION 12: Ecological Information         SECTION 12: Ecological Information         Section 12: Ecological Information on other hazards:         Section 12: Ecological Information on other hazards:         Toxicity       Marmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       No data available.         Toxicity       No data available.         Ecological Information on ingreet       Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxicity       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         Persistence and degradability       1         Signacer not data on the degradability of this product.       1         12.3. Bioaccumulative potential       No data available on bioaccumulation.         12.4. Mobility in soil       No data available on bioaccumulation.         12.4. Mobility in soil       No terus partny miscible with water and may spread in the aquatic environment.         12.5. Results of PBT and vPvB       This product does not contain any substances classified as PBT or vPvB.	-	Liquid may irritate skin.		
11.2 Information on other hazards         Information on other hazards         SECTION 12: Ecological information         SECTION 12: Ecological information         Ecotoxicity         Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity         Toxicity         No data available.         Ecological information on ingredient         Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxicity         LE(C)pe       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         12.2. Persistence and degradability         Persistence and degradability       There are no data on the degradability of this product.         12.3. Bioaccumulative potential         No data available on bioaccumulation.	11.2 Information on other hazards         Information on other hazards         SECTION 12: Ecological Information         SECTION 12: Ecological Information         SECTION 12: Ecological Information         SECTION 12: Ecological Information         Toxicity         Toxicity Colspan="2">Toxicity         Toxicity Colspan="2">Toxicity         Toxicity Colspan="2">Toxicity Colspan="2">Toxicity Colspan="2">Colspan="2">Toxicity Colspan="2">Colspan="2">Toxicity Colspan="2">Colspan="2">Toxicity Colspan="2">Toxicity Colspa	Eve contact			
Information on other hazards SECTION 12: Ecological informatio Ecotoxicity Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 12.1. Toxicity Toxicity No data available. Ecological information on ingredient Ecological information on ingredients Ecological	Information on other hazards         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.         Toxicity       No data available.         Ecological information on ingreduct toxicity.       Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxicity.       Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxicity.       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         12.2. Persistence and degradability       1         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.         12.4. Mobility in soil       The product is partly miscible with water and may spread in the aquatic environment.         12.5. Results of PBT and vPvB       This product does not contain any substances classified as PBT or vPvB.	-			
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.         Toxicity       No data available.         Ecological information on ingredients       Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxicity       0.1 < L(E)C50 ≤ 1         M factor (Acute)       0         1       1         12.2. Persistence and degradability       There = no data on the degradability of this product.         12.3. Bioaccumulative potential       No data available on bioaccumulation.	SECTION 12: Ecological informative         Ecotoxicity       Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       No data available.         Toxicity       No data available.         Ecological Information on ingredIent       Phosphorodithiolic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxic       Phosphorodithiolic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxic       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         12.2. Persistence and degradability       1         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.         12.4. Mobility in soil       The product is partly miscible with water and may spread in the aquatic environment.         12.5. Results of PBT and vPvB       This product does not contain any substances classified as PBT or vPvB.				
Ecotoxicity       Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       No data available.         Toxicity       No data available.         Ecological information on ingredients.       Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxicity       0.1 < L(E)C50 ≤ 1	Ecotoxicity       Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         12.1. Toxicity       No data available.         Ecological information on ingredients.       Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxicity       LE(C)∞         LE(C)∞       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         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 assessment       The product is partly miscible with water and may spread in the aquatic environment.         12.5. PBT and vPvB       This product does not contain any substances classified as PBT or vPvB.	Information on other hazards			
12.1. Toxicity       No data available.         Toxicity         Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic tox::::::::::::::::::::::::::::::::::::	12.1. Toxicity       No data →uilable.         Toxicity       No data →uilable.         Ecological information on ingredienter         Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxi=         Acute aquatic toxi=         LE(C)∞       0.1 < L(E)C50 ≤ 1         M factor (Acute)       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         Persistence and degradability         M factor (Acute)       1         Persistence and degradability         I 1.3. Bioaccumulative potential       Tore = to data on the degradability of this product.         I Acute aquatic is partly miscible with water and may spread in the aquatic environment.         12.5. Results of PBT and vPvB		ion		
Toxicity       No data	Toxicity       No data = iable.         Ecological information on ingreduation       Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic tox====================================		ion		
Ecological information on ingredients: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts Acute aquatic toxic# LE(C)∞ 0.1 < L(E)C50 ≤ 1 0.1 < L(E)C50 ≤ 1 0.1 < L(E)C50 ≤ 1 1 c 1. 2.2. Persistence and degradability Persistence and degradability Persistence and degradability 1. Comparison of the term of term	Ficelogical information on ingredied         Ficelogical information on ingredied         Phosphorodithioic acid, 0,0-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxi/         LE(C)∞         LE(C)∞         0.1 < L(E)C50 ≤ 1         M factor (Acute)         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <tr< th=""><th>SECTION 12: Ecological informat</th><th></th></tr<>	SECTION 12: Ecological informat			
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic toxicity         LE(O)∞       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         12.2. Persistence and degradability       1         Persistence and degradability       There are no data on the degradability of this product.         12.3. Bioaccumulative potential       No data available on bioaccumulation.	Acute aquatic tox/c/l       Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts         Acute aquatic tox/c/l       Acute aquatic tox/c/l         LE(C)∞       0.1 < L(E)C50 ≤ 1         M factor (Acute)       1         12.2. Persistence and degradability       1         Persistence and degradability       There are no data on the degradability of this product.         12.3. Bioaccumulative potential       No data available on bioaccumulation.         Bioaccumulative potential       No data available on bioaccumulation.         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       This product does not contain any substances classified as PBT or vPvB.	SECTION 12: Ecological informat			
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12.6 Endocrine disrupting properties	
Endocrine disrupting properties	
12.6. Other adverse effects	
Other adverse effects	No information required.
SECTION 13: Disposal considera	tions
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.
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 require	d.
14.4. Packing group	
Not applicable.	
14.5. Environmental hazards	
Environmentally hazardous subst	ance/marine pollutant
14.6. Special precautions for user	
Not applicable.	
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 to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
SECTION 15: Regulatory informa	tion
15.1. Safety, health and environm	nental regulations/legislation specific for the substance or mixture
Guidance	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

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No chemical safety assessment has been carried out.

<b>SECTION 16</b>	: Other	<sup>r</sup> information
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Key literature references and sources for data	This SDS is prepared based on the information received from the product raw material.
Revision comments	This is the first issue.
Issued by	Hazal KUBİLAY / Teknology Center Laboratory Manager KIMCERT Certificate Number :KDU01.26.07
Revision date	06/09/2021
Revision	0.0
Supersedes date	06/09/2021
SDS number	21352
Hazard statements in full	H304 May be fatal if swallowed and enters airways. H319 Causes serious eye irritation. H332 Harmful if inhaled. H400 Very toxic to aquatic life. H412 Harmful 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.