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ENGINE OIL | GEAR OIL | GREASE | COOLANT | HYDRAULIC OIL

PRODUCT DATA SHEET (PDS)

SCHAEFFLER TOPOWER









SPECIALITY LUBRICANTS



Universal Tractor Transmission Oil (UTTO)

MULTI-PURPOSE TRACTOR OIL FOR TRANSMISSION, HYDRAULIC & WET BRAKE







Schaeffler TruPower Universal Tractor Transmission Oil (UTTO) is a high-quality multipurpose tractor oil formulated from high quality hydrotreated base stocks and carefully selected additives, designed to deliver the best performance in transmission, hydraulic, final drive, PTO systems and wet brakes system of modern tractors working in severe conditions.

It meet all the lubrication requirements of tractors with all weather performance. Forms a protective oil film for all the tractor components and protect components against break down.

It has unique water tolerance properties, high oxidative and thermal stability and an optimized friction system. It has high detergency level and excellent oxidation stability with good antiwear properties.

Meet Specifications:

- John Deere: JDM J20 C/D.
- Massey Ferguson: CMS M 1135/ M1141/M 1143/M 1145.
- Case New Holland: MAT 3505/3509/3525.

Features:

- Excellent high temperature stability and viscosity control
- High detergency level.
- Excellent oxidation stability
- Good antiwear properties
- · Anti-friction agents provide smooth braking.

Benefits:

- Ensures noise-free operation of immersed brakes.
- Gear protection for transmissions, axles and final drives.
- · Extends oil and equipment life.
- Excellent all-weather performance.
- Intense protection against rust and corrosion.
- Long service life through good thermal stability.
- High engine performance in low speed or high torque.

- Wide range of transmissions, hydraulics, PTOs, final drives & wet brake systems of farm tractors.
- For use in tractors manufactured by all major OEMs like Mahindra, TAFE, Eicher, SAME, ITL, Swaraj, Escorts, John Deere, New Holland, Sonalika, etc.



Universal Tractor Transmission Oil (UTTO)

MULTI-PURPOSE TRACTOR OIL FOR TRANSMISSION, HYDRAULIC & WET BRAKE

Typical Properties:

Property	Method	Unit	UTTO
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L2.0
Relative Density@29.5°C	ASTM D1298	g/ml	0.86
Kinematic Viscosity@100°C	ASTM D445	mm²/s	10.6
Kinematic Viscosity@40°C	ASTM D445	mm²/s	70.15
Viscosity Index	ASTM D2270	None	139
Pour Point	ASTM D97	°C	-27
Flash Point, PMCC	ASTM D93	°C	230
Sulphated Ash	ASTM D874	% wt	1.14
Total Base Number (TBN)	ASTM D2896	mg, KOH/g	6.9

These characteristics are typical and variations in these may occur*

Product Handling & Storage:

- Lubricating oil for lubrication application, Clear & Transparent liquid free from sediments. Density @29
 Degree- 0.83-0.9 g/ml, Non-Toxic, Non-Carcinogenic, minor irritant to eyes.
- Flash point @180 °C, CO2, Foam, Dry chemical and extinguishers. Sand or earth may be used to smother small fires. Dense black smoke during fire.
- Do not store in unlabeled containers. Store away from strong oxidizing or combustible material. General ventilation required, avoid extreme heat.
- Product disposal should be strictly as per local regulations, empty packaging thoroughly with cleaning.

Health & Safety Measures:

- Wear safety glass: In affected, hold eyelid open & flush with water.
- Use oil resistant gloves: If skin is affected then wash skin with water & Soap.
- If swallowed seek medical emergency.
- Inhalation of mist: Avoid Inhalation, Inhalation lead to dizziness hence take casualty to fresh air.
- Spillage: Avoid Spillage, Product sinks in the sewage water on account of its high specific gravity please avoid it to reaches ground water.
- Maintain person hygiene, wash hands before eating, drinking water.

About Schaeffler:

Schaeffler, headquartered in Germany, is a global Automotive and Industrial supplier and is known for leading technology & innovations. Schaeffler manufactures high-precision OE quality components and systems for engine, transmission and chassis applications under LuK, INA & FAG brands.

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FORK OIL (SAO)

HIGH LOAD SMOOTH PERFORMANCE HYDRAULIC SHOCK ABSORBER OIL





Schaeffler TruPower SAO are blended from high viscosity index oils and specially selected additives to provide excellent anti-wear, anti-rust and anti-oxidation properties. Highly refined, zero aromatic base oils guarantee excellent viscosity properties at low temperatures. The performance and characteristics are well known and approved by the major shock absorber producers. They have very good chemical stability, excellent seal compatibility and very low pour point (for usage over wide range of temperature variations) with excellent dampening characteristics.

Features:

- Anti-corrosive, anti-wear and extreme pressure seal properties.
- Extreme low-temperature viscosity.
- Good chemical stability with very low pour point.
- Fast acting anti-Foam ability for maximum dampening efficiency.
- Year-round use in all weather conditions.
- Extreme high viscosity index & high shear stability.

Benefits:

- Excellent in absorbing shock on all types of roads.
- · Protection against infiltrated water.
- Decrease of foam formation.
- Leakages are avoidable.
- Faultless operation also in multi-metal systems.
- Slow oil ageing with extended oil change intervals.
- Versatile application, reduce the risk of misapplication.
- Good filterability.

- Recommended for use in two-wheeler suspension.
- Also suitable for hydraulic shock absorber of automobiles and for industrial shock absorber application.



FORK OIL (SAO)

HIGH LOAD SMOOTH PERFORMANCE HYDRAULIC SHOCK ABSORBER OIL

Typical Properties:

Property	Method	Unit	Fork Oil (SAO)
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L0.5
Relative Density@29.5°C	ASTM D1298	g/ml	0.843
Kinematic Viscosity@100°C	ASTM D445	mm²/s	5.6
Kinematic Viscosity@40°C	ASTM D445	mm²/s	32.5
Viscosity Index	ASTM D2270	None	111
Pour Point	ASTM D97	°C	-15
Flash Point, PMCC	ASTM D93	°C	199

These characteristics are typical and variations in these may occur*

Product Handling & Storage:

- Lubricating oil for lubrication application, Clear & Transparent liquid free from sediments. Density @29
 Degree- 0.83-0.9 g/ml, Non-Toxic, Non-Carcinogenic, minor irritant to eyes.
- Flash point @180 °C, CO2, Foam, Dry chemical and extinguishers. Sand or earth may be used to smother small fires. Dense black smoke during fire.
- Do not store in unlabeled containers. Store away from strong oxidizing or combustible material. General ventilation required, avoid extreme heat.
- Product disposal should be strictly as per local regulations, empty packaging thoroughly with cleaning.

Health & Safety Measures:

- Wear safety glass: In affected, hold eyelid open & flush with water.
- Use oil resistant gloves: If skin is affected then wash skin with water & Soap.
- If swallowed seek medical emergency.
- Inhalation of mist: Avoid Inhalation, Inhalation lead to dizziness hence take casualty to fresh air.
- Spillage: Avoid Spillage, Product sinks in the sewage water on account of its high specific gravity please avoid it to reaches ground water.
- Maintain person hygiene, wash hands before eating, drinking water.

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20W-50 SF



HIGH QUALITY DUEL FUEL PREMIUM ENGINE OIL (CNG/LPG)



Schaeffler TruPower SAE 20W-50 SF is high quality dualfuel engine oil developed specifically for vehicles operating on environment friendly Compressed Natural Gas (CNG) or Liquid Petroleum Gas (LPG) used with a combination of petrol or diesel fuels. It has been blended with a special additive chemistry, which provides excellent protection to engines against wear, deposits and provides outstanding engine cleanliness.

Meet Specifications:

- SAE 20W-50 API SF.
- BS-III & BS-IV norms.





Features:

- Exceptional thermal stability at high temperature.
- Special additive chemistry which provides excellent engine protection.
- Low ash contents reduces the formation of lacquer / sludge in the engines.
- · Good anti-scuffing properties.
- Protect the engine from nitrates & oxide formation.
- Compatible with catalytic exhaust system fitted in the vehicle.

Benefits:

- Suitable for use in all seasons and helps in reducing oil consumption.
- Provides excellent low as well as a high temperature performance.
- Provides excellent protection to engines against wear and deposits with outstanding clean engine.
- Increasing engine life and reducing maintenance costs.

- Recommended for CNG/LPG fitted buses, taxis, cars, rickshaws and commercial vehicles.
- Also suited for steady motoring, slow moving and dense traffic conditions.



HIGH QUALITY DUEL FUEL PREMIUM ENGINE OIL (CNG/LPG)

Typical Properties:

Property	Method	Unit	20W-50 SF
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L3.5
Relative Density@29.5°C	ASTM D4052	g/ml	0.872
Kinematic Viscosity@100°C	ASTM D445	mm²/s	18.7
Kinematic Viscosity@40°C	ASTM D445	mm²/s	166.75
CCS Viscosity@-15°C (20W)	ASTM D5293	mPa.s (cP)	6545
Viscosity Index	ASTM D2270	None	127
Pour Point	ASTM D97	°C	-24
Flash Point, PMCC	ASTM D93	°C	237
Sulphated Ash	ASTM D874	% wt	0.95
Total Base Number (TBN)	ASTM D2896	mg, KOH/g	7.2

These characteristics are typical and variations in these may occur*

Product Handling & Storage:

- Lubricating oil for lubrication application, Clear & Transparent liquid free from sediments. Density @29
 Degree- 0.83-0.9 g/ml, Non-Toxic, Non-Carcinogenic, minor irritant to eyes.
- Flash point @180 °C, CO2, Foam, Dry chemical and extinguishers. Sand or earth may be used to smother small fires. Dense black smoke during fire.
- Do not store in unlabeled containers. Store away from strong oxidizing or combustible material. General ventilation required, avoid extreme heat.
- Product disposal should be strictly as per local regulations, empty packaging thoroughly with cleaning.

Health & Safety Measures:

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- If swallowed seek medical emergency.
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HYDRAULIC OIL (HLP 32)

MULTIPURPOSE ANTI-WEAR HEAVY DUTY HYDRAULIC OIL





Schaeffler TruPower HLP 32 hydraulic oil is a premium quality antiwear lubricant blended using selected and carefully refined high-quality mineral oils, combined with a multifunctional additive system and available in a wide viscosity range from ISO Grade 32 to 100.

These oils are formulated with a premium additive system that inhibits oxidation to help prevent acid formation and viscosity increase and inhibit rust and foam. It protects hard-working hydraulic systems from the stress of high-pressure, high-load and heavy-duty operations. It keeps hydraulic systems cleaner for long life and reliable operation. This line of oils has been designed to meet the requirements of major hydraulic pump manufacturers, and its applications include hydraulic systems used in industrial and marine applications as well as in mobile machinery.

Meet Specifications:

- DIN 51502.
- DIN 51524 part II HLP type.
- Cincinnati Lamb P-68, P-69 & P-70.
- Eaton M-2950-S (35VQ25 pump test).
- Vickers I-286-S3 (Industrial equipment).
- Parker (Dension) HF-0, HF-1 & HF-2.
- Bosch Rexroth RE90220.

Features:

- Good hydrolytic stability and filterability.
- Anti-Corrosive, Anti-wear and extreme pressure Seal protection.
- Anti Oxidation properties for high temperature resistance and life-time increase.
- Good chemical stability & very low pour point.
- Fast acting Anti-Foam ability for maximum dampening efficiency.
- Year-round use in all weather conditions.

Benefits:

- Antiwear protection for high-pressure systems.
- Prevent filter blocking and optimize performance.
- Fully compatible with common seal materials and prevent fluid leakage.
- Outstanding antiwear properties, rust protection, low varnish and deposit formation.

- For hydraulic systems and pumps operating under medium pressure.
- For industrial and marine applications as well as in mobile machinery.



HYDRAULIC OIL (HLP 32)

MULTIPURPOSE ANTI-WEAR HEAVY DUTY HYDRAULIC OIL

Typical Properties:

Property	Method	Unit	HLP-32
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L0.5
Relative Density@29.5°C	ASTM D1298	g/ml	0.843
Kinematic Viscosity@100°C	ASTM D445	mm²/s	5.6
Kinematic Viscosity@40°C	ASTM D445	mm²/s	32.7
Viscosity Index	ASTM D2270	None	108
Pour Point	ASTM D97	°C	-15
Flash Point, PMCC	ASTM D93	°C	220
Gear Scuffing Test (FZG)	DIN 51354-2	Failure Load Stage	10

These characteristics are typical and variations in these may occur*

Product Handling & Storage:

- Lubricating oil for lubrication application, Clear & Transparent liquid free from sediments. Density @29
 Degree- 0.83-0.9 g/ml, Non-Toxic, Non-Carcinogenic, minor irritant to eyes.
- Flash point @180 °C, CO2, Foam, Dry chemical and extinguishers. Sand or earth may be used to smother small fires. Dense black smoke during fire.
- Do not store in unlabeled containers. Store away from strong oxidizing or combustible material. General ventilation required, avoid extreme heat.
- Product disposal should be strictly as per local regulations, empty packaging thoroughly with cleaning.

Health & Safety Measures:

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- Use oil resistant gloves: If skin is affected then wash skin with water & Soap.
- If swallowed seek medical emergency.
- Inhalation of mist: Avoid Inhalation, Inhalation lead to dizziness hence take casualty to fresh air.
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HYDRAULIC OIL (HLP 46)

MULTIPURPOSE ANTI-WEAR HEAVY DUTY HYDRAULIC OIL





Schaeffler TruPower HLP 46 hydraulic oil is a premium quality antiwear lubricant blended using selected and carefully refined high-quality mineral oils, combined with a multifunctional additive system and available in a wide viscosity range from ISO Grade 32 to 100.

These oils are formulated with a premium additive system that inhibits oxidation to help prevent acid formation and viscosity increase and inhibit rust and foam. It protects hard-working hydraulic systems from the stress of high-pressure, high-load and heavy-duty operations. It keeps hydraulic systems cleaner for long life and reliable operation. This line of oils has been designed to meet the requirements of major hydraulic pump manufacturers, and its applications include hydraulic systems used in industrial and marine applications as well as in mobile machinery.

Meet Specifications:

- DIN 51502.
- DIN 51524 part II HLP type.
- Cincinnati Lamb P-68, P-69 & P-70.
- Eaton M-2950-S (35VQ25 pump test).
- Vickers I-286-S3 (Industrial equipment).
- Parker (Dension) HF-0, HF-1 & HF-2.
- · Bosch Rexroth RE90220.

Features:

- Good hydrolytic stability and filterability.
- Anti-Corrosive, Anti-wear and extreme pressure Seal protection.
- Anti Oxidation properties for high temperature resistance and life-time increase.
- Good chemical stability & very low pour point.
- Fast acting Anti-Foam ability for maximum dampening efficiency.
- Year-round use in all weather conditions.

Benefits:

- Antiwear protection for high-pressure systems.
- Prevent filter blocking and optimize performance.
- Fully compatible with common seal materials and prevent fluid leakage.
- Outstanding antiwear properties, rust protection, low varnish and deposit formation.

- For hydraulic systems and pumps operating under medium pressure.
- For industrial and marine applications as well as in mobile machinery.



HYDRAULIC OIL (HLP 46)

MULTIPURPOSE ANTI-WEAR HEAVY DUTY HYDRAULIC OIL

Typical Properties:

Property	Method	Unit	HLP-46
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L0.5
Relative Density@29.5°C	ASTM D1298	g/ml	0.847
Kinematic Viscosity@100°C	ASTM D445	mm²/s	7.0
Kinematic Viscosity@40°C	ASTM D445	mm²/s	46.5
Viscosity Index	ASTM D2270	None	106
Pour Point	ASTM D97	°C	-12
Flash Point, PMCC	ASTM D93	°C	230
Gear Scuffing Test (FZG)	DIN 51354-2	Failure Load Stage	10

These characteristics are typical and variations in these may occur*

Product Handling & Storage:

- Lubricating oil for lubrication application, Clear & Transparent liquid free from sediments. Density @29
 Degree- 0.83-0.9 g/ml, Non-Toxic, Non-Carcinogenic, minor irritant to eyes.
- Flash point @180 °C, CO2, Foam, Dry chemical and extinguishers. Sand or earth may be used to smother small fires. Dense black smoke during fire.
- Do not store in unlabeled containers. Store away from strong oxidizing or combustible material. General ventilation required, avoid extreme heat.
- Product disposal should be strictly as per local regulations, empty packaging thoroughly with cleaning.

Health & Safety Measures:

- Wear safety glass: In affected, hold eyelid open & flush with water.
- Use oil resistant gloves: If skin is affected then wash skin with water & Soap.
- If swallowed seek medical emergency.
- Inhalation of mist: Avoid Inhalation, Inhalation lead to dizziness hence take casualty to fresh air.
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HYDRAULIC OIL (HLP 68)

MULTIPURPOSE ANTI-WEAR HEAVY DUTY HYDRAULIC OIL





Schaeffler TruPower HLP 68 hydraulic oil is a premium quality antiwear lubricant blended using selected and carefully refined high-quality mineral oils, combined with a multifunctional additive system and available in a wide viscosity range from ISO Grade 32 to 100.

These oils are formulated with a premium additive system that inhibits oxidation to help prevent acid formation and viscosity increase and inhibit rust and foam. It protects hard-working hydraulic systems from the stress of high-pressure, high-load and heavy-duty operations. It keeps hydraulic systems cleaner for long life and reliable operation. This line of oils has been designed to meet the requirements of major hydraulic pump manufacturers, and its applications include hydraulic systems used in industrial and marine applications as well as in mobile machinery.

Meet Specifications:

- DIN 51502.
- DIN 51524 part II HLP type.
- Cincinnati Lamb P-68, P-69 & P-70.
- Eaton M-2950-S (35VQ25 pump test).
- Vickers I-286-S3 (Industrial equipment).
- Parker (Dension) HF-0, HF-1 & HF-2.
- Bosch Rexroth RE90220.

Features:

- Good hydrolytic stability and filterability.
- Anti-Corrosive, Anti-wear and extreme pressure Seal protection.
- Anti Oxidation properties for high temperature resistance and life-time increase.
- Good chemical stability & very low pour point.
- Fast acting Anti-Foam ability for maximum dampening efficiency.
- Year-round use in all weather conditions.

Benefits:

- Antiwear protection for high-pressure systems.
- Prevent filter blocking and optimize performance.
- Fully compatible with common seal materials and prevent fluid leakage.
- Outstanding antiwear properties, rust protection, low varnish and deposit formation.

- For hydraulic systems and pumps operating under medium pressure.
- For industrial and marine applications as well as in mobile machinery.



HYDRAULIC OIL (HLP 68)

MULTIPURPOSE ANTI-WEAR HEAVY DUTY HYDRAULIC OIL

Typical Properties:

Property	Method	Unit	HLP-68
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L0.5
Relative Density@29.5°C	ASTM D1298	g/ml	0.847
Kinematic Viscosity@100°C	ASTM D445	mm²/s	9.1
Kinematic Viscosity@40°C	ASTM D445	mm²/s	67.7
Viscosity Index	ASTM D2270	None	110
Pour Point	ASTM D97	°C	-15
Flash Point, PMCC	ASTM D93	°C	236
Gear Scuffing Test (FZG)	DIN 51354-2	Failure Load Stage	12

These characteristics are typical and variations in these may occur*

Product Handling & Storage:

- Lubricating oil for lubrication application, Clear & Transparent liquid free from sediments. Density @29
 Degree- 0.83-0.9 g/ml, Non-Toxic, Non-Carcinogenic, minor irritant to eyes.
- Flash point @180 °C, CO2, Foam, Dry chemical and extinguishers. Sand or earth may be used to smother small fires. Dense black smoke during fire.
- Do not store in unlabeled containers. Store away from strong oxidizing or combustible material. General ventilation required, avoid extreme heat.
- Product disposal should be strictly as per local regulations, empty packaging thoroughly with cleaning.

Health & Safety Measures:

- Wear safety glass: In affected, hold eyelid open & flush with water.
- Use oil resistant gloves: If skin is affected then wash skin with water & Soap.
- If swallowed seek medical emergency.
- Inhalation of mist: Avoid Inhalation, Inhalation lead to dizziness hence take casualty to fresh air.
- Spillage: Avoid Spillage, Product sinks in the sewage water on account of its high specific gravity please avoid it to reaches ground water.
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HYDRAULIC OIL (HLP 100)

MULTIPURPOSE ANTI-WEAR HEAVY DUTY HYDRAULIC OIL





TruPower HLP 100 hydraulic oil is a premium quality antiwear lubricant blended using selected and carefully refined high-quality mineral oils, combined with a multifunctional additive system and available in a wide viscosity range from ISO Grade 32 to 100.

These oils are formulated with a premium additive system that inhibits oxidation to help prevent acid formation and viscosity increase and inhibit rust and foam. It protects hard-working hydraulic systems from the stress of high-pressure, high-load and heavy-duty operations. It keeps hydraulic systems cleaner for long life and reliable operation. This line of oils has been designed to meet the requirements of major hydraulic pump manufacturers, and its applications include hydraulic systems used in industrial and marine applications as well as in mobile machinery.

Meet Specifications:

- DIN 51502.
- DIN 51524 part II HLP type.
- Cincinnati Lamb P-68, P-69 & P-70.
- Eaton M-2950-S (35VQ25 pump test).
- Vickers I-286-S3 (Industrial equipment).
- Parker (Dension) HF-0, HF-1 & HF-2.
- · Bosch Rexroth RE90220.

Features:

- Good hydrolytic stability and filterability.
- Anti-Corrosive, Anti-wear and extreme pressure Seal protection.
- Anti Oxidation properties for high temperature resistance and life-time increase.
- Good chemical stability & very low pour point.
- Fast acting Anti-Foam ability for maximum dampening efficiency.
- Year-round use in all weather conditions.

Benefits:

- Antiwear protection for high-pressure systems.
- Prevent filter blocking and optimize performance.
- Fully compatible with common seal materials and prevent fluid leakage.
- Outstanding antiwear properties, rust protection, low varnish and deposit formation.

- For hydraulic systems and pumps operating under medium pressure.
- For industrial and marine applications as well as in mobile machinery.



HYDRAULIC OIL (HLP 100)

MULTIPURPOSE ANTI-WEAR HEAVY DUTY HYDRAULIC OIL

Typical Properties:

Property	Method	Unit	HLP-100
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L0.5
Relative Density@29.5°C	ASTM D1298	g/ml	0.847
Kinematic Viscosity@100°C	ASTM D445	mm²/s	11.6
Kinematic Viscosity@40°C	ASTM D445	mm²/s	100.8
Viscosity Index	ASTM D2270	None	101
Pour Point	ASTM D97	°C	-12
Flash Point, PMCC	ASTM D93	°C	240
Gear Scuffing Test (FZG)	DIN 51354-2	Failure Load Stage	12

These characteristics are typical and variations in these may occur*

Product Handling & Storage:

- Lubricating oil for lubrication application, Clear & Transparent liquid free from sediments. Density @29
 Degree- 0.83-0.9 g/ml, Non-Toxic, Non-Carcinogenic, minor irritant to eyes.
- Flash point @180 °C, CO2, Foam, Dry chemical and extinguishers. Sand or earth may be used to smother small fires. Dense black smoke during fire.
- Do not store in unlabeled containers. Store away from strong oxidizing or combustible material. General ventilation required, avoid extreme heat.
- Product disposal should be strictly as per local regulations, empty packaging thoroughly with cleaning.

Health & Safety Measures:

- Wear safety glass: In affected, hold eyelid open & flush with water.
- Use oil resistant gloves: If skin is affected then wash skin with water & Soap.
- If swallowed seek medical emergency.
- Inhalation of mist: Avoid Inhalation, Inhalation lead to dizziness hence take casualty to fresh air.
- Spillage: Avoid Spillage, Product sinks in the sewage water on account of its high specific gravity please avoid it to reaches ground water.
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