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PRODUCT DATA SHEET (PDS)

SCHAEFFLER

**TruPower**



# 4T MOTORCYCLE ENGINE OIL

### PREMIUM 4T ENGINE OIL FOR OPTIMUM POWER IN MODERN TWO WHEELERS



Schaeffler TruPower 4T 10W-30 SL is a premium quality engine oil specially formulated for high speed Air/Liquid cooled 4-Stroke engines of new generation motorcycles, Scooters, and all-terrain vehicles (ATVs). It is blended from superior quality base oil and specially formulated Molecules that exceed the most demanding lubrication requirements and prevent degradation of the oil by damage-causing free radicals, thus ensuring optimum power retention, ride after ride. It provides combined protection for engine, transmission and wet clutch. Superior quality motorcycle engine oil specially developed for to optimizes friction in the clutch and resulting reduces the power losses due to friction. To a great extend it protects from common causes of engine breakdown and stress.

#### Meet Specifications :

- SAE 10W-30 API SL.
- BS-IV/BS-VI norms.
- JASO MA2 (JASO T 903).

#### Retail Pack



0.8L / 0.9L / 1L

#### Bulk Pack



50L / 210L

#### Features :

- Exceptional thermal and oxidation stability.
- Excellent lubrication film stability.
- High detergent and dispersant properties.
- Excellent high temperature protection.
- Broad viscosity range.

#### Benefits :

- Excellent resistance against wear and deposits.
- Longer Drain interval makes it value for money.
- Excellent performance at high temperature & stress conditions.
- Effective cleanliness of engine, gear & wet clutch.
- Improved fuel economy.
- Heat dissipation is very fast and longer engine life.

#### Recommended Use :

- Air/Liquid cooled 4-stroke modern AT motorcycle and scooter engines.
- New generation BS-IV & BS-VI complaint Motorcycles and Scooters.

PREMIUM 4T ENGINE OIL FOR OPTIMUM POWER IN MODERN TWO WHEELERS

Typical Properties :

Property	Method	Unit	4T - 10W-30 SL
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L2.5
Relative Density@29.5°C	ASTM D4052	g/ml	0.862
Kinematic Viscosity@100°C	ASTM D445	mm²/s	10.9
Kinematic Viscosity@40°C	ASTM D445	mm²/s	69.8
CCS Viscosity@-25°C (10W)	ASTM D5293	mPa.s (cP)	5893
Viscosity Index	ASTM D2270	None	147
Pour Point	ASTM D97	°C	-30
Flash Point, PMCC	ASTM D93	°C	227
Sulphated Ash	ASTM D874	% wt	1.01
Total Base Number (TBN)	ASTM D2896	mg, KOH/g	7.4
Clutch Friction Test Results			
Dynamic Friction Index (DFI)	JASO T 903	--	2.02
Static Friction Index (SFI)	JASO T 903	--	1.93
Stop Time Index (STI)	JASO T 903	--	2.0

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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No warranties are expressed or implied\*

### FULLY SYNTHETIC ULTRA PREMIUM HIGH SPEED RACER OIL FOR TWO WHEELERS



Schaeffler TruPower 4T 10W-40 SN is a specially formulated synthetic blend engine oil with balanced additive for high performance new generation 4-stroke motorcycles and scooters having medium to large engines. The balanced advanced formulation protects engine and gear box while reducing Clutch slippage and meets friction tests as per JASO MA2 & T903. It also can be use in place of SM and SL. These oils are recommended where the oil drain intervals are generally low, and the oil is required to give satisfactory performance while providing economic advantage to the end user. This product helps to provide an outstanding level of performance in today's high-performance motorcycles. It will help keep 4-stroke engines running clean protecting even in extreme operating conditions.

#### Meet Specifications :

- SAE 10W-40 API SN.
- BS-IV/BS-VI norms.
- JASO MA2 (JASO T 903).

#### Retail Pack



0.9L / 1L / 3L / 3.5L

#### Bulk Pack



50L / 210L

#### Features :

- Excellent clutch friction characteristics.
- High and stable viscosity index.
- High evaporative stability ensures lower oil consumption.
- Optimized frictional properties.
- Outstanding thermal and oxidation stability.
- Excellent detergent/dispersant capability.
- Excellent lubrication film stability.

#### Benefits :

- Superior engine and wet clutch protection over a wide operating temperature.
- Minimal risk of slippage and premature wear of the clutch discs
- Fluid film protection minimizing deposit formation.
- Less deposits resulting extended engine oil drain and component life.
- Significantly reduces fuel consumption.
- Offer quick start even under low ambient temperature conditions

#### Recommended Use :

- Air/Liquid cooled 4-stroke Motorcycles & Scooters of all leading manufacturers like (Honda, Hero, Suzuki, Bajaj, Yamaha, TVS etc.)
- New generation BS-IV & BS-VI compliant Motorcycles and Scooters.



FULLY SYNTHETIC ULTRA PREMIUM HIGH SPEED RACER OIL FOR TWO WHEELERS

Typical Properties :

Property	Method	Unit	4T - 10W-40 SN
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L2.5
Relative Density@29.5°C	ASTM D4052	g/ml	0.853
Kinematic Viscosity@100°C	ASTM D445	mm²/s	14.3
Kinematic Viscosity@40°C	ASTM D445	mm²/s	93.7
CCS Viscosity@-25°C (10W)	ASTM D5293	mPa.s (cP)	5490
Viscosity Index	ASTM D2270	None	158
Pour Point	ASTM D97	°C	-27
Flash Point, PMCC	ASTM D93	°C	218
Sulphated Ash	ASTM D874	% wt	1.10
Total Base Number (TBN)	ASTM D2896	mg, KOH/g	8.1
Clutch Friction Test Results			
Dynamic Friction Index (DFI)	JASO T 903	--	1.96
Static Friction Index (SFI)	JASO T 903	--	1.73
Stop Time Index (STI)	JASO T 903	--	1.90

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 :

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No warranties are expressed or implied\*

### PREMIUM PLUS 4T ENGINE OIL FOR BIGGER MOTORCYCLE ENGINES (ABOVE 350CC)



Retail Pack



2.5L

Bulk Pack



50L / 210L

Schaeffler TruPower 4T 15W-50 SM is a specially developed premium oils to maintain the highest standards of protection and oil performance reliability for the new generation engine sizes. It is superior detergent type lubricating oil meeting the highest API performance level for motorcycles with bigger engines (350cc and above) and can be use in place of SL. It offers you a high degree of reliability and enhanced control, giving you an enjoyable ride always.

It is recommended for all kind of Two Wheelers - 4 Stroke Scooters and Motorcycles. The product has been developed especially for high speed, high power & heavy duty 4-stroke new generation motorcycles.

This oil enhances engine clutch and gear box performance, reduces oil consumption, reduce engine deposits, include quick engine start, enhance pick up and also provide longer battery Life.

#### Meet Specifications :

- SAE 15W-50 API SM.
- BS-IV/BS-VI norms.
- JASO MA2 (JASO T 903).

#### Features :

- Exceeds the requirements of JASO MA2.
- Excellent oil film and shear strength.
- Does not deteriorate even in high operating temperatures.
- High viscosity stability to enhance engine performance.
- Active cleaning agents provide engine cleanliness.

#### Benefits :

- Improved engine and gear protection.
- Enhanced clutch performance.
- Superior engine cleanliness.
- Extended drain interval.
- Excellent low temperature fluidity.
- Smooth drivability.

#### Recommended Use :

- Air/Liquid cooled 4-stroke Motorcycles 350cc and above.
- New generation BS-IV & BS-VI compliant Motorcycles.

PREMIUM PLUS 4T ENGINE OIL FOR BIGGER MOTORCYCLE ENGINES (ABOVE 350CC)

Typical Properties :

Property	Method	Unit	4T - 15W-50 SM
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L3.0
Relative Density@29.5°C	ASTM D4052	g/ml	0.863
Kinematic Viscosity@100°C	ASTM D445	mm²/s	18
Kinematic Viscosity@40°C	ASTM D445	mm²/s	135.5
CCS Viscosity@-20°C (15W)	ASTM D5293	mPa.s (cP)	5388
Viscosity Index	ASTM D2270	None	148
Pour Point	ASTM D97	°C	-27
Flash Point, PMCC	ASTM D93	°C	228
Sulphated Ash	ASTM D874	% wt	1.15
Total Base Number (TBN)	ASTM D2896	mg, KOH/g	8.2
Clutch Friction Test Results			
Dynamic Friction Index (DFI)	JASO T 903	--	2.0
Static Friction Index (SFI)	JASO T 903	--	1.7
Stop Time Index (STI)	JASO T 903	--	1.85

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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### BLENDED SYNTHETIC PREMIUM PLUS 4T ENGINE OILS FOR TWO WHEELERS



Schaeffler TruPower 4T 20W-40 SM is a premium quality 4-stroke engine oil developed specifically to meet the requirements of the latest high-performance air-cooled motorcycle engines. These oils are blended from superior quality base oils and specially selected performance additives and can also be used in place of SL.

Meets the requirements of most motorcycle manufacturers and is suitable for use in 4 stroke petrol engines, gear boxes & wet clutches operating in all round seasons and adapted to vehicles equipped with catalytic converters running on unleaded fuels.

Recommended for new generation 4-stroke engines in high performance motorcycles & scooters of all leading global manufacturers.

#### Meet Specifications :

- SAE 20W-40 API SM.
- BS-IV norms.
- JASO MA2 (JASO T 903).

#### Retail Pack



0.9L / 1L

#### Bulk Pack



50L / 210L

#### Features :

- Very good shear stability and excellent viscosity temperature behavior.
- Exceptional thermal and oxidation stability.
- High detergent and dispersant properties.
- Excellent heat resistance capability.
- Optimizes frictional properties.
- Aids faster heat dissipation to give longer engine life.

#### Benefits :

- Ensures excellent wear protection.
- Longer drain intervals.
- Lower clutch slippage.
- Provides better fuel economy.
- Longer drain interval means value for money.
- Excellent operation at high temperature conditions.
- Maintains a high order of engine cleanliness.

#### Recommended Use :

- Specially formulated for engine, transmission and wet clutch of 4-stroke two-wheelers.
- Air/Liquid cooled 4-stroke Motorcycles 350cc and above.
- New generation BS-IV & BS-VI compliant Motorcycles (350cc and above).

## BLENDed SYNTHETIC PREMIUM PLUS 4T ENGINE OILS FOR TWO WHEELERS

### Typical Properties :

Property	Method	Unit	4T - 20W-40 SM
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L3.5
Relative Density@29.5°C	ASTM D4052	g/ml	0.88
Kinematic Viscosity@100°C	ASTM D445	mm <sup>2</sup> /s	14.3
Kinematic Viscosity@40°C	ASTM D445	mm <sup>2</sup> /s	119.5
CCS Viscosity@-25°C (10W)	ASTM D5293	mPa.s (cP)	5680
Shear Viscosity@100°C (30x) cSt	ASTM D6278	mm <sup>2</sup> /s	13.37
Viscosity Index	ASTM D2270	None	121
Pour Point	ASTM D97	°C	-24
Flash Point, PMCC	ASTM D93	°C	226
Sulphated Ash	ASTM D874	% wt	1.10
HTHS Viscosity@150°C	ASTM D5481	mPa.s (cP)	4.6
<b>Clutch Friction Test Results</b>			
Dynamic Friction Index (DFI)	JASO T 903	--	2.03
Static Friction Index (SFI)	JASO T 903	--	1.87
Stop Time Index (STI)	JASO T 903	--	1.87

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, CO<sub>2</sub>, 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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**PREMIUM 4T ENGINE OIL FOR SMALLER MOTORCYCLE ENGINES (BELOW 125CC)**



Schaeffler TruPower 4T 20W-40 SL is a all season Premium multi-grade 2-Wheeler engine oil manufactured for all type of new generation air cooled smaller (125cc and below) engines to provide outstanding protection against engine wear under high-temperature and high engine speed conditions.

It exceeds performance requirements of API SL and JASO MA2. It is totally compatible with catalytic converters and also compatible with unleaded/low leaded fuels. The unique, synthetic structure of the formulations offers advantages beyond the conventional motorcycle oils of similar viscosities. Synthetic formulations tend to be very shear stable and thus, provide a solid, protective oil film for engine bearings, piston rings, transmission gears and other critical engine parts.

**Meet Specifications :**

- SAE 20W-40 API SL
- BS-IV norms
- JASO MA2 (JASO T 903)

**Retail Pack**



0.8L / 0.9L / 1L

**Bulk Pack**



50L / 210L

**Features :**

- Maximum shear stability
- Exceptional Thermal and oxidation stability.
- Excellent low temperature flow characteristics.
- Superior wear & corrosion protection properties.
- Optimizes frictional properties.

**Benefits :**

- Resist viscosity shear down in high performance engines and transmissions.
- Resist oxidation and high-temperature degradation.
- Outstanding protection against wear of engine and transmission components.
- Optimized wet-clutch performance.
- Reduce engine noise and vibration.

**Recommended Use :**

- Recommended for air cooled 4-stroke Motorcycles & scooters ,autorickshaws having 125cc and below engine capacity.
- For most motorcycle and scooters like Honda, Hero, Suzuki, Bajaj, Yamaha, TVS, etc.

PREMIUM 4T ENGINE OIL FOR SMALLER MOTORCYCLE ENGINES (BELOW 125CC)

Typical Properties :

Property	Method	Unit	4T - 20W-40 SL
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L3.0
Relative Density@29.5°C	ASTM D4052	g/ml	0.87
Kinematic Viscosity@100°C	ASTM D445	mm²/s	14.1
Kinematic Viscosity@40°C	ASTM D445	mm²/s	119.4
CCS Viscosity@-25°C (10W)	ASTM D5293	mPa.s (cP)	6099
Viscosity Index	ASTM D2270	None	118
Pour Point	ASTM D97	°C	-24
Flash Point, PMCC	ASTM D93	°C	222
Sulphated Ash	ASTM D874	% wt	1.07
Total Base Number (TBN)	ASTM D2896	mg, KOH/g	7.9
Clutch Friction Test Results			
Dynamic Friction Index (DFI)	JASO T 903	--	1.98
Static Friction Index (SFI)	JASO T 903	--	1.86
Stop Time Index (STI)	JASO T 903	--	1.94

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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### PREMIUM 4T ENGINE OIL FOR HIGHER MILEAGE ENGINE PROTECTION.



Schaeffler TruPower 4T 20W-50 SL is a conventional 4-stroke motorcycle engine oil specially formulated to provide year-round engine protection. Designed from a combination of high quality mineral base stocks with high performance additives to exceed the performance requirement of engine and gear lubrication. It ensures superior engine cleanliness to maximize and maintain peak engine performance. It provides reliable protection for older, higher mileage engines.

It also contains enhanced anti-wear additives for superior corrosion and wear protection, resulting outstanding wet clutch protection for maximum power transfer and smooth shifting.

#### Meet Specifications :

- SAE 20W-50 API SL.
- BS-IV norms.
- JASO MA2.

#### Retail Pack



0.5L / 1L / 1.2L

#### Bulk Pack



50L / 210L

#### Features :

- Outstanding thermal & oxidation stability.
- Excellent anti-corrosion, anti-rust, anti-foaming properties.
- High detergent and dispersant properties.
- Superior cleaning properties.

#### Benefits :

- Excellent lubrication facilitates faster pick-up.
- Keep engines clean for smoother operation.
- Protects critical engine components & helps extend engine life.
- Keep the engine temperature stable over prolong use.
- Balance product design aids retaining its viscosity for longer time.

#### Recommended Use :

- All 4-stroke motorcycle & scooters in India, particularly operating under very high temperatures.
- For conventional 4-Stroke Two-Wheelers, like Bajaj, Hero, Honda & TVS.



PREMIUM 4T ENGINE OIL FOR HIGHER MILEAGE ENGINE PROTECTION.

Typical Properties :

Property	Method	Unit	4T - 20W-50 SL
Appearance	Visual		Clear & Bright
Colour	ASTM D1500		L2.5
Relative Density@29.5°C	ASTM D4052	g/ml	0.875
Kinematic Viscosity@100°C	ASTM D445	mm²/s	18.45
Kinematic Viscosity@40°C	ASTM D445	mm²/s	154.5
CCS Viscosity@-25°C (10W)	ASTM D5293	mPa.s (cP)	6164
Viscosity Index	ASTM D2270	None	134
Pour Point	ASTM D97	°C	-24
Flash Point, PMCC	ASTM D93	°C	220
Sulphated Ash	ASTM D874	% wt	1.07
Total Base Number (TBN)	ASTM D2896	mg, KOH/g	8.1

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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Disclaimer :

The above information is intended to give general health and safety guidance on the storage and transport of the substance or product to which it relates. The requirement or recommendation of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product shall take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication and will be updated as when appropriate.

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## TruPower



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