

BYGEN SYNTHETIC 20W50 SN



MATERIAL SAFETY DATA SHEET

SECTION #1: PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: BYGEN SYNTHETIC 20W50 SN

MANUFACTURER/SUPPLIER'S NAME: GENERAL PETROLEUM PRODUCTS
SUITE 1802 -1803, BEL RASHEED
TOWER, BUHEIRA CORNICHE,
P.O. BOX 46670, SHARJAH, UAE
TEL: 00971 6 5754717
FAX: 00971 6 5754718

24 HOURS EMERGENCY: Call GP LUBE (800-475823)

PRODUCT USE: AUTOMOTIVE ENGINE OIL

SECTION #2: COMPOSITION/INFORMATION ON INGREDIENTS

PREPARATION

| Ingredient name | CAS # | Percentage |
|----------------------------|--------------|-------------------|
| Base Oil | Mixture | 90-100% |
| Zinc alkyl dithiophosphate | 68649-42-3 | 1 – 2 |
| Pour Point Depressant | Mixture | <0.5 |

SECTION #3: HAZARD IDENTIFICATION

ADVERSE HUMAN HEALTH EFFECTS: Under normal conditions of use, the product holds no danger of intoxication.

ENVIRONMENTAL EFFECTS: Don't reject this product into the environment.

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PHYSICAL AND CHEMICAL HAZARDS: No specific risk of fire or explosion under normal conditions of use.

SECTION #4: FIRST AID MEASURES

IN CASE OF SERIOUS MANIFESTATIONS, CALL IN A DOCTOR OR EMERGENCY MEDICAL CARE

ROUTE OF EXPOSURE:

INHALATION: Inhalation of heavy concentrations of vapour, fumes or spray, may cause mild irritation of the throat. Transport the person into fresh air, keep warm and allow to rest.

CONTACT WITH THE SKIN: Immediately remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with soap and water.

CONTACT WITH THE EYES: Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes. Possible risk of vomiting and diarrhea.

INGESTION: Do not induce vomiting to avoid the risk of aspiration into the respiratory tract. Give nothing to drink.

ASPIRATION: If the product is believed to have entered the lungs (in case of vomiting, for example), take the person to hospital for immediate care.

SECTION #5: FIRE FIGHTING MEASURES

FLASH POINT (COC): 220°C

AUTOIGNITION TEMPERATURE (°C): N/A

EXTINGUISHING MEDIA: Foam, Dry chemical and CO₂.

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion products, CO and CO₂.

SPECIAL FIRE FIGHTING PROCEDURES: Do not enter confined fire space without adequate protective clothing and an approved positive self-contained breathing apparatus. Use water to cool fire exposed containers.

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SECTION #6: ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES: Eliminate all ignition sources. Stop leak only if safe to do so. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal.

SECTION #7: HANDLING AND STORAGE

STORAGE AND HANDLING: Store in cool, dry, ventilated area, away from heat and ignition sources. Use good personal hygiene. Always keep the container close.

PREVENTION OF FIRE & EXPLOSION: Empty containers may contain flammable or explosive vapours. Product-impregnated cloths and paper or material used to mop up spills can constitute a fire hazard. Do not allow these to accumulate in a pile. Discard these with all safety precautions immediately after use.

PRECAUTIONS: Avoid static electricity build up with connection to earth.
By arranging and setting up machinery and equipment so as to avoid accidental spills and splashes onto hot machine parts and electrical contacts.

TO BE AVOIDED: Do not store exposed to the elements.

INCOMPATIBLE PRODUCTS: Dangerous reaction with strong oxidizing Agents.

PACKAGING MATERIALS:

RECOMMENDED: Use only hydrocarbon-resistant containers, joints, pipes, etc. Keep in original container if possible; otherwise, transfer all indications on the regulatory label to the new container.

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SECTION #8: EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|-------------------------|--|
| VENTILATION: | Mechanical ventilation is recommended. |
| RESPIRATORY PROTECTION: | If mist present, chemical cartridge respirator is recommended. |
| GLOVES: | Resistant gloves (Viton, nitrile, Neoprene) are recommended when handling this material. |
| EYE PROTECTION: | Chemical safety goggles are recommended. |
| OTHER PROTECTION: | In confined spaces or where the risk of skin exposure is higher, resistant clothing or apron should be worn. |

SECTION #9: PHYSICAL & CHEMICAL DATA

APPEARANCE:

| | |
|----------------------------|---|
| PHYSICAL STATE: | Viscous Liquid |
| COLOR: | Yellow to brown |
| ODOR: | Characteristic Odor of Oil |
| pH: | Not Applicable |
| FLASH POINT: | >220 °C |
| AUTO IGNITION TEMPERATURE: | > 250°C (ASTM E 659). This temperature may be significantly lower under particular conditions (oxidation on high surface areas) |
| EXPLOSION LIMITS: | Not Applicable |
| DENSITY @ 15°C: | 0.885 |
| SOLUBILITY: | Soluble in water |
| VISCOSITY @ 100°C: | 16.3 to 21.9 cSt |

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SECTION #10: STABILITY AND REACTIVITY

| | |
|-----------------------------------|--|
| STABILITY: | The product is stable under normal temperatures of storage, handling and use. |
| DANGEROUS REACTIONS: | Not dangerous reaction known under normal conditions of use, to refer to the technical notice. |
| CONDITIONS TO AVOID: | Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. |
| MATERIALS TO AVOID: | Avoid contact with strong oxidizing. |
| DANGEROUS DECOMPOSITION PRODUCTS: | Incomplete combustion and thermolysis produce more or less toxic gases such as CO, CO ₂ , various hydrocarbons, aldehydes and soot. |

SECTION #11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/LOCAL EFFECTS

| | |
|--------------------|---|
| INHALATION: | Risk is improbable under normal conditions of use. Inhalation of important concentration of vapour or aerosols may cause irritation of the upper respiratory tract. |
| CONTACT WITH SKIN: | Risk is improbable under normal conditions of use. |
| INGESTION: | In case of ingestion of small quantities, no important effect observed. In case of ingestion of larger amounts: abdominal pain, diarrhea,... |

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SENSITIZATION: To our knowledge, the product don't induce sensitization.

CHRONIC TOXICITY OR LONG-TERM TOXICITY

CONTACT WITH THE SKIN: Characteristic skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing.

CARCINOGENECITY: This product is not regarded as carcinogenic. During use in engines, contamination of oil with low levels of combustion products occur. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

SECTION #12: ECOLOGICAL INFORMATION

MOBILITY

AIR: there is a slow loss by evaporation.

GROUND: Given its physical and chemical characteristics, the product generally shows little mobility in the ground.

WATER: The product is insoluble; it spreads on the surface of the water.

PERSISTENCE AND DEGRADABILITY: Experimental data on the finished product are not Available. However, the "mineral oil" portion of the virgin product is intrinsically biodegradable. Particular ingredients may not be biodegradable.

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ECOTOXICITY: The virgin product is considered to present no danger for land-growing organisms and little danger for aquatic life. No data are currently available for the used product.

SECTION #13: DISPOSABLE CONSIDERATIONS

WASTE DISPOSAL: Dispose in a safe manner in accordance with local/national regulations. If need be, collection by an authorized waste contractor and regeneration or incineration in an approved installation.

USED PACKAGING DISPOSAL: Conform to the regulation in effect.
INDUSTRIAL WASTE NUMBER EU: 13-02-02 (non-chlorinated engine, gear, lubricating oils)

Notice concerning the nomenclature of waste
Law concerning the disposal of waste and the recycling of waste materials
Relating regulation of the recovery of used oils :
Law concerning collection and conditions of disposal

SECTION #14: TRANSPORT INFORMATION

UN CLASSIFICATION NO: unregulated
ROAD (ADR) / RAIL (RID)/ ADNR: Not restricted for transport.
MARINE (IMO-IMDG): Not restricted for transport.
AIRLINE (ICAO / IATA): Not restricted for transport

SECTION #15: REGULATORY INFORMATION

EUROPEAN REGULATIONS:

EC LABELLING:
SYMBOLS (S) None
R PHRASES None
S PHRASES None

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SECTION #16: ADDITIONAL INFORMATION

Prepared by: General Petroleum Products - Technical Department
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