

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

PRODUCT : HP SYNTHKOOL 100 HINDUSTAN PETROLEUM CORPORATION LIMITED  
PRODUCT CODE : 52 335 17, JAMSHEDJI TATA ROAD,  
MSDS NO. : 2-257-1 BOMBAY,  
DATE OF ISSUE : OCTOBER 1995 INDIA - 400 020  
STATUS : NEW

MEDICAL EMERGENCY  
90 22 2618031

REVISION CHANGES

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients present at or above 0.1 wt % (classified as toxic or very toxic) or 1 wt % (classified as harmful, irritant or corrosive).

HAZARDOUS INGREDIENT	APPROXIMATE CONCENTRATION
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None

The chemical identity of some or all of the ingredients is confidential business information and is being withheld. In the event of a medical emergency, compositional information will be provided to medical staff.

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## 3. HAZARD IDENTIFICATION

This product contains a mixture of water and selected additives.

It is of low oral and dermal toxicity and under normal conditions of use should present no significant health hazards. However, in common with most chemicals brief contact may cause slight irritation.

Handling precautions should be strictly observed.

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## 4. FIRST AID

INHALATION :

At ambient/normal handling temperatures, inhalation of vapors is normally not a problem. If overexposed to mist, remove from further exposure. Administer artificial respiration if breathing is irregular or has stopped. Get prompt medical attention.

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SKIN CONTACT :

Brief contact may cause slight irritation. Prolong contact, as with wet clothing may cause more severe irritation and discomfort, as seen as local redness and swelling. Wash skin with plenty of soap water and get medical attention if irritation persists.

EYE CONTACT :

Rinse immediately with plenty of water until irritation subsides. If irritation persists, obtain medical advice.

INGESTION :

If swallowed, DO NOT induce vomiting; keep at rest and call a physician

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5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA :

not applicable.

FIRE AND EXPLOSION HAZARDS :

Not applicable.

SPECIAL FIRE-FIGHTING PROCEDURES :

Not applicable.

HAZARDOUS COMBUSTION PRODUCTS

Not applicable.

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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS : Section 8.

LAND SPILL :

Shut off source taking normal safety precautions. Prevent liquid from entering sewers, water course of low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation. Take measures to minimize the effects on ground water.

If necessary, dispose of adsorbed residues as direct in Section 13.

WATER SPILL

Ventilate area. Avoid breathing vapour. Use self-contained breathing apparatus of supplied air for large spills of confined areas. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing. Notify port and other relevant authorities.

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7. HANDLING AND STORAGE

Storage the product in cool, well ventilated surroundings, well away from source of ignition. Provide suitable mechanical equipment for the safe handling of drums and heavy packages.

Electrical equipment and fitting must comply with local regulations regarding fire prevention with this class of product.

LOAD/UNLOAD TEMPERATURE, °C : Ambient to max. 40°C  
STORAGE TEMPERATURE, °C : Ambient to max. 40°C

**SPECIAL PRECAUTIONS :**

Keep containers closed when not in use

Prevent small spills and leakages to avoid slip hazard.

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**RESPIRATORY PROTECTION.**

Air borne concentrations should be kept to lowest levels possible. If vapour, mist or dust is generated, use approved respirator as appropriate. Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels, or other confined spaces.

**HAND AND SKIN PROTECTION**

Avoid skin contact. When contamination has occurred, workers should wash exposed skin with soap and water. Soiled clothing should be laundered or dry cleaned.

**EYE PROTECTION**

Chemical type goggles or face shield recommended to prevent eye contact.

**VENTILATION**

Adequate to meet occupational exposure limits.

**EXPOSURE LIMIT FOR THE PRODUCT**

OSHA PEL-STEL 50 ppm: ACGIH TLV-STEL 50 ppm.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE / ODOUR                      : FLOURESCENT GREENISH YELLOW  
LIQUID, NO ODOUR.

DENSITY @ 29.5°C, g/ml (Average)    : 1.110

BOILING RANGE                            : IBP 104°C (TYPICAL)

VISCOSITY, KINEMATIC @ 100°C, CST   : DATA NOT AVAILABLE

VAPOUR DENSITY                         : GREATER THAN AIR

EVAPORATION RATE                       : SLOWER THAN N-BUTYL ACETATE

SOLUBILITY : SOLUBLE IN WATER  
pH : 9.5 AVERAGE

FLASH POINT, °C (PMCC) : NOT APPLICABLE MATERIAL SAFETY DATA SHEET

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AUTO-IGNITION TEMPERATURE : DATA NOT AVAILABLE

PARTITION COEFFICIENT n-octanol/water : DATA NOT AVAILABLE

#### 10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC) : Stable

CONDITIONS TO AVOID :

Keep away from heat source, open flames and other sources of ignition

INCOMPATIBLE MATERIALS :

Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS :

Product does not decompose at ambient temperature.

#### 11. TOXICOLOGICAL INFORMATION

EFFECTS OF OVER EXPOSURE :

INHALATION :

Negligible hazard at ambient/normal handling temperatures.

Elevated temperatures or mechanical action may form vapours, mists, or fumes which may be irritating to the eyes, nose, throat, and lungs.

Avoid breathing vapours, mists, or fumes.

SKIN CONTACT :

Low order of acute toxicity.

Prolonged or repeated contact may lead to mild skin irritation,

EYE CONTACT :

Slightly irritating, but does not injure eye tissue.

INGESTION :

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CHRONIC OR ACUTE :

Ingredients present in this preparation can produce significant adverse health effects, including death, in humans and animals. Keep out of reach of children.

12. ECOLOGICAL INFORMATION

In the absence of specific environmental data for this product, this assessment is based on information for general Chemical components found. According to EC criteria product is expected to be readily biodegradable and believed not to be toxic to aquatic species. Releases of small quantities are unlikely to affect adversely the functioning of water treatment plants.

13. DISPOSAL CONSIDERATIONS

Collect and dispose of waste product at an authorised facility, in conformance with national and local regulations, and in accordance with EEC Directives on the disposal of waste oil.

14. TRANSPORT INFORMATION

USUAL SHIPPING CONTAINERS : Rail cars, tank trucks, drums.

TRANSPORT TEMPERATURE, °C : Ambient to max.40 C

15. REGULATORY INFORMATION

EC DANGEROUS SUBSTANCES/PREPARATIONS CLASSIFICATION :

Not Regulated

Refer to national legislation implementing the EC Directive 91/155/EC.

16. OTHER INFORMATION

PRODUCT TYPE / USES :

Soluble type semi synthetic cutting fluid effective as rust preventive coolant for grinding and high speed machining. preventive in grinding operations.

SOURCE OF KEY DATA :

The recommendations presented in this Material Safety Data Sheet were compiled from actual test data (when available), comparison with similar products, component information from suppliers and from recognised codes of goods practice.

The information and recommendations contained herein, to the best of knowledge of Hindustan Petroleum Corporation Limited are brief, accurate and reliable as of the date issued, but are offered without guarantee or warranty. They relate to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use.