



HINDUSTAN PETROLEUM CORPORATION LIMITED

MUMBAI REFINERY

## MATERIAL SAFETY DATA SHEET COMPENDIUM

Document Title: MSDS Compendium, Mumbai Refinery

Edition: 1

### 6.16 MSDS of 150 N-II

#### **Section 1: Chemical Product and Company Identification**

##### **1.1 Chemical Product Identifiers:**

1.1.1 Chemical Name	150 NEUTRAL SOLVENT
1.1.1.1 Trade Name	150 N-II
1.1.2 CAS No.	64742-65-0

##### **1.2 Relevant identified uses of the chemical product and uses advised against**

Relevant identified uses	Base oil.
Uses advised against	No Data Available

##### **1.3 Details of the supplier of the safety data sheet**

1.3.1 Company Name	Hindustan Petroleum Corporation Limited
1.3.2 Address	HPCL Mumbai Refinery, B D Patil Marg Chembur, Mumbai-400074
1.3.3 Contact No.	022-25076605
1.3.4 Contact person in emergency	Fire & Safety Shift Supervisor
<b>1.4 Emergency Telephone No.:</b>	022-25076606

#### **Section 2: Hazards Identification**

**2.1 Classification of the chemical product:** The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

**2.2 Label Elements:** Not classified/No labelling required

##### **2.3 Other hazards except those mentioned in DGCP Rules, 201:**

##### **Results of PBT and vPvB assessment**

Contaminated surfaces will be extremely slippery. Should not be released into the environment.

#### **Section 3: Composition/Information on Ingredients**

**3.1 Name of Product:** 150 N-II

**3.1.1 Systematic Chemical Name or Trivial Name:** 150 NEUTRAL SOLVENT

**3.1.2 CAS No.:** 64742-65-0



#### **Section 4: First-Aid Measures**

##### **4.1 Description of first aid measures**

###### **4.1.1 Inhalation**

Move to fresh air.

###### **4.1.2 Skin Contact**



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Remove contaminated clothing and shoes, Wash off with soap and water, Wash contaminated clothing before reuse

**4.1.3 Eye Contact**

Rinse thoroughly with plenty of water, also under the eyelids.

**4.1.4 Ingestion**

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.

**4.2 Most important symptoms and anticipated effects both acute and delayed**  
gastrointestinal irritation, nausea, vomiting, Irritation, diarrhoea

**4.3 Advice for immediate medical attention and special treatment needed**

Treat symptomatically.

**Section 5: Firefighting Measures**

**5.1 Extinguishing Media**



**• Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). ABC powder. Foam. Water spray or fog.

**• Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire

**5.2 Special hazards arising from the chemical product:**

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

**5.3 Hazardous Combustion Products:**

Not Classified

**5.4 Specific Extinguishing Methods**

For this substance/mixture no limitations of extinguishing agents are given

**5.4.1 Advice for Fire-Fighters**

Cool containers / tanks with water spray, Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**5.4.2 Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus and protective suit.

**Section 6: Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**



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Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

### 6.2 Environmental precautions:

Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and materials for containment and cleaning up:

#### Advice on how to contain a spill

Dam up.

#### Advice on how to clean up a spill

Collect with non-combustible absorbent material (sand, diatomaceous earth, earth, vermiculite).

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

### 6.4 Reference to other sections:

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## Section 7: Handling and Storage

### 7.1 Precautions for Safe Handling:

Use only in well-ventilated areas.

### Measures to prevent fire as well as aerosol and dust generation

When using, do not eat, drink or smoke.



Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.

### Measures to protect the environment

Avoid release to the environment.

## Section 8: Exposure Controls and Personal Protection

### 8.1 Control Parameters

#### National Limit Values



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**Occupational exposure limit values (Workplace Exposure Limits)**

Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/mS 1]	STE L [ppm]	STEL [mg/mS 1]	Ceiling - C [ppm]	Ceiling -C [mg/mS]	Notation	Source
15 0 N- II	64742 -65-0		0.00 1	10						

**Notation**

- Ceiling-C: Ceiling value is a limit value above which exposure should not occur
- STEL: Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15- minute period (unless otherwise specified)
- TWA: Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours' time-weighted average (unless otherwise specified)

**Human health values****Relevant DNELs and other threshold levels**

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	5.4 mg/m <sup>3</sup> /8h	human, inhalatory	worker (industry)	Long term, local effects
DNEL	1.2 mg/m <sup>3</sup> /24h	human, inhalatory	Consumer	Long term, local effects

**DNEL: Derived No Effect Level****8.2 Exposure Controls****8.2.1 Personal Protective Equipment:**

Use of PPE to be ensured by working crew for exposure control. Different PPEs for exposure control of different body parts is described in the next section.

**8.2.2 Suggestions for protection of eye, skin and body and respiratory system:**

- Eye/face protection



Safety glasses with side-shields.



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• Skin protection



a. Hand protection

Hydrocarbon-proof gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

• Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 141). The use of breathing apparatus must comply strictly



with the manufacturer's instructions and the regulations governing their choices and uses.

**8.2.3 Environmental Exposure Controls:**

The product should not be allowed to enter drains, water courses or the soil.

**Section 9: Physical and Chemical Properties**

**9.1 Information on basic physical and chemical properties**

Physical state	liquid
Colour	yellow
Odour	like: - characteristic
Melting point/freezing point	No information available
Boiling point or initial boiling point and boiling range	No information available
Flammability	No information available
Lower and upper explosion limit	Not explosive
Flash point	210 °C
Pour point	-15 °C
Auto-ignition temperature	> 250 °C
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	28-33 cst @ 40 °C
Viscosity Index	105
<b>Solubility(ies)</b>	



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Water solubility	Insoluble
<b>Partition coefficient</b>	
Partition coefficient n-octanol/water (log value):	4 (pH value: 7, 20 °C) (ECHA)
Soil organic carbon/water (log KOC)	3.34 (ECHA)
Vapour pressure	160 hPa at 20 °C
<b>Density and/or relative density</b>	
Density	872 kg/m <sup>3</sup> @ 15 °C
Relative vapour density	No information available
Particle characteristics	No information available
<b>Other safety parameters</b>	
Oxidising properties	not applicable

## 9.2 Other Information:

### Information with regard to physical hazard classes:

There is no additional information.

## Section 10: Stability and Reactivity

### 10.1 Chemical stability

Stable under recommended storage conditions.

### 10.2 Possibility of hazardous reactions

None under normal processing

### 10.3 Conditions to avoid

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

### 10.4 Incompatible materials

Strong oxidising agents.

### 10.5 Hazardous decomposition products

None under normal use

## Section 11: Toxicological Information

**11.1 Information on Toxicological Effects:** Symptoms related to the physical, chemical and toxicological characteristics

- **If swallowed**

Not classified.

- **If in eyes**

Not classified.

- **If inhaled**

Not classified.



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- **If on skin**  
Not classified.
- **Other information**  
None

**11.1.1 Acute Toxicity:**

Exposure route	Endpoint	Value	Species	Source
Inhalation	LC50	5 mg/l/4h	rat	OECD 403
Oral	LD50	> 5000 mg/kg bw	rat	OECD 420
Dermal	LD50	> 5000 mg/kg bw	rabbit	OECD 402

**11.1.2 Skin Corrosion/ Irritation:** Not classified.

**11.1.3 Serious Eye Damage/ Eye Irritation:** Not classified.

**11.1.4 Respiratory or Skin Sensitization:** None known.

**11.1.5 Mutagenicity:** This product is not classified as mutagenic.

**11.1.6 Carcinogenicity:** This product is not classified carcinogenic.

**11.1.7 Reproductive Toxicity:** This product does not contain any known or suspected reproductive hazards.

**11.1.8 Specific target organ toxicity-single exposure:** No information available.

**11.1.9 Specific target organ toxicity - repeated exposure:** No information available.

**11.1.10 Aspiration Hazard:** No information available.

**11.1.11 Additional Information:** Characteristic skin lesions (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).

**Section 12: Ecological Information**

**12.1 Toxicity:** Toxic to aquatic life with long lasting effects.

**Aquatic toxicity (acute)**

Endpoint	Value	Species	Source	Exposure time
LL50	> 100 mg/l	fish	OECD 203	96 h
EL50	> 10000 mg/l	aquatic invertebrates	OECD 202	48 h

**Aquatic toxicity (Chronic)**

NOEL	10 mg/l	fish	QSAR Petrotox	14/28 d
NOEL	> 1000 mg/l	aquatic invertebrates	OECD 211	21 d



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**12.2 Persistence and Degradability:** Inherently biodegradable.

**12.3 Bio Accumulative Potential:** No information available.

n-octanol/water (log KOW)

> 6 @ 20 °C

**12.4 Mobility in Soil:** Given its physical and chemical characteristics, the product generally shows low soil mobility.

**12.5 Other adverse effects:** No information available.

### Section 13: Disposal considerations

**13.1 Waste Treatment Method:** Dispose of in accordance with the European Directives on waste and hazardous waste. Where possible recycling is preferred to disposal or incineration.



**13.1.1 Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal

**13.1.2 Local Regulations (if any) on Disposal:** Waste material must be disposed of in accordance with the **Hazardous Waste Management Rules-2016**

### Section 14: Transport Information

**14.1 UN Number:** Not Classified

**14.2 UN Proper Shipping Name:** Not Classified

**14.3 Transport Class(es):** Not Classified

**14.4 Packaging Group:** Not Classified

**14.5 Environmental Hazards:** Not Classified

**14.6 Special Precautions for User:** Not Classified

### Section 15: Regulatory Information

**15.1 Safety, health and Environmental:** Regulations/legislation specific for the substance or mixture relevant provisions of **Non - Toxic/Flammable Substance** are applicable

### Section 16: Other Information

**16.1 Date of Issue:** March 2023

**16.2 Necessity of Specific Training:** Working and handling personnel to be trained on following aspects

- i. Chemical hazard awareness
- ii. Safety control measures including PPE
- iii. Housekeeping, hygiene and chemical storage
- iv. Responding to any kind of emergency



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