



HINDUSTAN PETROLEUM CORPORATION LIMITED
MUMBAI REFINERY
MATERIAL SAFETY DATA SHEET COMPENDIUM

Document Title: MSDS Compendium, Mumbai Refinery

Edition: 1

6.22 MSDS of ELASTO SUPREME (TRAE)

Section 1: Chemical Product and Company Identification

1.1 Chemical Product Identifiers:

1.1.1 Chemical Name	ELASTO SUPREME
1.1.1.1 Trade Name	ELASTO SUPREME
1.1.2 CAS No.	64742-52-5

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

Relevant identified uses	Distillates (petroleum), hydrotreated heavy Naphthenic, Rubber processing oil – Naphthenic Type
Uses advised against	No information 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

1.4 Emergency Telephone No.:	022-25076606
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Section 2: Hazards Identification

2.1 Classification of the chemical product:

Hazard class	Category	Hazard class & category	Hazard statement
Aspiration hazard	1	Asp. Tox. 1	H304

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)



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2.2.1 GHS pictograms:



GHS08

2.2.2 Signal Word(s): Danger

2.2.3 Hazard Statements(s):

H304 May be fatal if swallowed and enters airways

2.2.4 Precautionary Statement(s):

Precautionary statements - prevention

P331 Do not induce vomiting.

P102 Keep out of reach of children

Precautionary statements – response

P301+P310 If swallowed immediately call a poison centre/doctor

P405 Store locked up.

P501 Dispose of contents/container to authorized chemical landfill or if organic to high temperature incineration.

2.3 Other hazards except those mentioned in DGCPL Rules, 201:

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Section 3: Composition/Information on Ingredients

3.1 Name of Product: ELASTO SUPREME

3.1.1 Systematic Chemical Name or Trivial Name: ELASTO SUPREME

3.1.2 CAS No.: 64742-52-5

Section 4: First-Aid Measures

4.1 Description of first aid measures



4.1.1 Inhalation



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If fumes, aerosol or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary

4.1.2 Skin Contact

Remove contaminated clothing and footwear, and dispose of safely. Seek medical attention if skin irritation, swelling or redness develops and persists

4.1.3 Eye Contact

Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

4.1.4 Ingestion

Immediately give a glass of water. Do not give anything by mouth to an unconscious person. Do not induce vomiting as there is a risk of aspiration. Call a doctor immediately.

4.2 Most important symptoms and anticipated effects both acute and delayed

Irritation, Nausea, Vomiting

4.3 Advice for immediate medical attention and special treatment needed

None.

Section 5: Firefighting Measures

5.1 Extinguishing Media



- **Suitable extinguishing media**

Dry chemical powder, foam, Carbon dioxide (CO₂), Water fog.

- **Unsuitable extinguishing media**

Does not use direct water jets on the burning product; they could cause splattering and spread the fire.

5.2 Special hazards arising from the chemical product:

Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds.

5.3 Hazardous Combustion Products:

In case of fire may be liberated: None

5.4 Specific Extinguishing Methods

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

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:



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Work gloves providing adequate chemical resistance, specifically to hydrocarbons. Wear approved respiratory protection such as toxic dust, mist and fume respirator. Safety glasses, chemical type goggles, or face shield appropriate where splashing or misting is expected during routine operations.

6.2 Environmental precautions:

Prevent product from entering sewers, rivers, waterways or other bodies of water.

6.3 Methods and materials for containment and cleaning up:

Advice on how to contain a spill

Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes.

Advice on how to clean up a spill

Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations

Other information relating to spills and releases

Empty containers may contain combustible product residues. Do not weld, solder, drill, cut or perform similar operations unless they have been properly cleaned.

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:

Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Keep away from food and beverages.

Measures to prevent fire as well as aerosol and dust generation

For fires involving this material, do not enter any enclosed or confined space without self contained breathing apparatus to protect against the hazardous effects of combustion



products or oxygen deficiency.

Measures to protect the environment

No particular measures.

7.2 Conditions for Safe Storage, including requirement of hazardous area



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Incompatible substances or mixtures

Avoid reaction with oxidizing agents.

Consideration of other advice:

For containers, or container linings use mild steel, stainless steel.

Ventilation requirements

Use local and general ventilation

Section 8: Exposure Controls and Personal Protection

8.1 Control Parameters

National Limit Values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
Germany	Elasto Supreme	64742-52-5	ACGIH TLV		5		20				

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)

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, chemical type goggles, or face shield appropriate where splashing or misting is expected during routine operations or spill clean-up.



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- **Skin protection**



- a. Hand protection**

Wear general protective gloves, e.g. light weight rubber gloves. Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin several times daily with soap and water and laundering or dry cleaning soiled work clothing at least daily.

- b. Other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

- **Respiratory protection:** If operating conditions create airborne concentrations which exceed the recommended exposure standard(s), the use of an approved respirator is recommended. Wear approved respiratory protection such as toxic dust, mist and fume



respirator.

8.2.3 Environmental Exposure Controls:

This material may present environmental risks common to oil spills.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Dark Homogeneous
Odour	Odourless
Melting point/freezing point	Not Applicable
Boiling point or initial boiling point and boiling range	Not Applicable
Flammability	Not Applicable
Lower and upper explosion limit	No data available
Flash point	250-350 °C, ASTM D 92
Pour point	18-38 °C
Aniline point	84-94 °C
Auto-ignition temperature	Not Applicable
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	700-1206 cst at 40 °C



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	25-31 cst at 100 °C
Refractive Index	1.5312 @ 20 °C
<u>Solubility(ies)</u>	
Water solubility	Negligible
<u>Partition coefficient</u>	
Partition coefficient n-octanol/water (log value):	not determined
Soil organic carbon/water (log KOC)	not determined
Vapour pressure	<0.013 kPa
<u>Density and/or relative density</u>	
Density	0.9 to 0.96 (g/cc at 15 °C)
Relative vapour density	not determined
Particle characteristics	not relevant (liquid)
<u>Other safety parameters</u>	
Oxidising properties	none

9.2 Other Information:

Information with regard to physical hazard classes:

There is no additional information.

Section 10: Stability and Reactivity

10.1 Reactivity

Stable.

10.2 Chemical stability

Product is considered stable and hazardous polymerisation will not occur.

10.3 Possibility of hazardous reactions

Avoid temperatures exceeding the flash point.

10.4 Conditions to avoid

No specific data

10.5 Incompatible materials

No specific data

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

Section 11: Toxicological Information

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



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- **If swallowed**
Not Classified
- **If in eyes**
Not Classified
- **If inhaled**
Not Classified
- **If on skin**
Not Classified
- **Other information**
None

11.1.1 Acute Toxicity:

Exposure route	Endpoint	Value	Species	Source
Inhalation	LC50	>5000 mg/kg (4h)	rat	ECHA
Oral	LD50	>5000 mg/kg bw	rat	ECHA
Dermal	LD50	>2000 mg/kg bw	rabbit	ECHA

11.1.2 Skin Corrosion/ Irritation: Shall not be classified as a corrosive/irritant to skin

11.1.3 Serious Eye Damage/ Eye Irritation: Shall not be classified as irritation on eye contact

11.1.4 Respiratory or Skin Sensitization: Shall not be classified as irritation on eye contact

11.1.5 Mutagenicity: Shall not be classified as germ cell mutagenic.

11.1.6 Carcinogenicity: Shall not be classified as carcinogenic.

11.1.7 Reproductive Toxicity: Shall not be classified as Reproductive Toxicity

11.1.8 Specific target organ toxicity-single exposure: Shall not be classified as a specific target organ toxicant.

11.1.9 Specific target organ toxicity - repeated exposure: Shall not be classified as a specific target organ toxicant

11.1.10 Aspiration Hazard: Shall not be classified as presenting an aspiration hazard.

11.1.11 Additional Information: There is no additional information.

Section 12: Ecological Information

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

Endpoint	Value	Species	Exposure time
LL50	$\geq 10,000$ mg/L	Fish	96 h
EC50	≤ 100 mg/L	Fish	72 h
LC50	> 100 mg/L	Daphnia magna	48 h



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12.2 Persistence and Degradability: No information available.

12.3 Bio Accumulative Potential: No information available.

12.4 Mobility in Soil: No information available.

12.5 Other adverse effects: Data are not available

Section 13: Disposal considerations

13.1 Waste Treatment Method: Place contained materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.



- **Sewage disposal-relevant information**

Prevent product from entering sewers, rivers, waterways or other bodies of water

Section 14: Transport Information

14.1 UN Number: Not Applicable

14.2 UN Proper Shipping Name Not Applicable

14.3 Transport Class(es): Not Applicable

14.4 Packaging Group: Not Applicable

14.5 Environmental Hazards: None (non-environmentally hazardous acc. to the dangerous goods regulations).

14.6 Special Precautions for User: Not Applicable

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

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

16.3 Disclaimer: This M.S.D.S and the information it contains is offered to you in good faith as accurate. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all



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