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**SAFETY DATA SHEET**

This Safety Data Sheet is provided in compliance with the EC Regulation 1907/2006-2015/830

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

- Product Name: Griptop LD - Hardener
- Product Part Number: C10/06/06/054-H

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

- Use of the substance/mixture: Hardener component of three component flow applied polyurethane floor topping

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

- Name of Supplier: Don Construction Chemicals India LTD
- Telephone: +91 44 2618 5340/41/42
- Email: [info.india@dcp-int.com](mailto:info.india@dcp-int.com)

**1.4 Emergency telephone number**

- Emergency Telephone: +91 44 2618 5340/41/42

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

- CLP: Acute toxicity (inhalation: dust, mist) Category 4, Skin corrosion/irritation Category 2, Eye damage/eye irritation Category 2B, Respiratory sensitization Category 1, Skin sensitization Category 1, Specific target organ toxicity – single exposure Category 3
- Label elements



- Signal Word: Danger
- Hazard statements
  - H332 - Harmful if inhaled
  - H315+H320 - Causes skin and eye irritation.
  - H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - H317 - May cause an allergic skin reaction.
  - H335 - May cause respiratory irritation.

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- Precautionary statements
  - P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P271 - Use only outdoors or in a well-ventilated area.
  - P264 - Wash thoroughly after handling.
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
  - P285 - In case of inadequate ventilation wear respiratory protection.
  - P272 - Contaminated work clothing should not be allowed out of the workplace.
  - P201 - Obtain special instructions before use.
  - P202 - Do not handle until all safety precautions have been read and understood.
  - P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
  - P305+P351+P338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
  - P337+P313 - If eye irritation persists: Get medical advice/attention.
  - P302+P352 - IF ON SKIN: Wash with soap and water.
  - P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower].
  - P333+P313 - If skin irritation or a rash occurs: Get medical advice/attention.
  - P403+P233 - Store in a well ventilated place. Keep container tightly closed.
  - P405 - Store locked up.

## 2.2 Other hazards

- None

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Material	CAS#	Percentage	Categories	Symbols	H statements
Polymethylene polyphenyl polyisocyanate (includes 4,4'-diphenylmethane diisocyanate (4,4'-MDI), CAS # 101-68-8)	9016-87-9	100	Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2, Acute Tox. 4, Resp. Sens. 1, STOT SE 3, Carc. 2, STOT RE 2	GHS08, GHS07	H315, H317, H319, H332, H334, H335, H351, H373

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Take off immediately all contaminated clothing.
- Inhalation
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - Seek medical attention if ill effects occur. If respiratory irritation or distress occurs, remove victim to fresh air. Seek immediate medical attention.
- Contact with skin
- Remove contaminated clothing and shoes. Wash with plenty of water, for at least 15 minutes. Seek medical attention if irritation develops or persists. Launder contaminated clothing and shoes before re-use.
- Contact with eyes
  - Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists.
- Ingestion
  - Do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended.

### 4.2 Most important symptoms and effects, both acute and delayed

- No information available

### 4.3 Indication of any immediate medical attention and special treatment needed

- No information available

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Foam, Water Spray, Dry Powder, Carbon Dioxide.  
Do not use water with a full water jet.

### 5.2 Special hazards arising from the substance or mixture

- Closed containers may rupture due to buildup of pressure when exposed to extreme heat. Cool containers exposed to fire with water. After the fire is extinguished, neutralize the spilled material with decontaminant. Keep the area clear. Clean up residual material by washing area with water. Collect washings for disposal.
- Oxides of carbon, hydrogen cyanide

### 5.3 Advice for firefighters

- Firefighters should wear NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.
- Do not allow run-off water to enter sewers and water sources.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- In case of fire: Evacuate area.
- May give off noxious and toxic fumes in a fire

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Ensure adequate ventilation
- Wear protective clothing as per section 8
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Evacuate the area and keep personnel upwind
- Wash thoroughly after dealing with spillage
- Avoid contact with skin and eyes

### 6.2 Environmental precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- Prevent further spillage if safe

### 6.3 Methods and material for containment and cleaning up

- Absorb with material such as sand or polypropylene or polyethylene fiber products. Collect in suitable and properly labeled containers. Remove residual using hot soapy water. Residual resin can be removed with solvent. Solvents are not recommended for cleanup unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent MSDS for handling information.

### 6.4 Reference to other sections

- See Section 8, 13

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Adopt best Manual Handling considerations when handling, carrying and dispensing.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid contact with skin and eyes
- Do not eat, drink or smoke when using this product.
- Ensure adequate ventilation
- Keep away from food, drink and animal foodstuffs
- Use good personal hygiene practices
- Store in original, correctly labelled and tightly closed containers
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Contaminated work clothing should not be allowed out of the workplace.
- Wash contaminated clothing before reuse.

### 7.2 Conditions for safe storage, including any incompatibilities

- Store in original, correctly labelled and tightly closed containers
- Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations. Keep containers tightly closed.
- Store in a dry environment away from direct sunlight.
- Store in a cool, dry, well ventilated area.

### 7.3 Specific end use(s)

- No information available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

- No information available

### 8.2 Exposure controls



- Ensure adequate ventilation
- Avoid contact with skin and eyes
- Contaminated work clothing should not be allowed out of the workplace.
- Do not eat, drink or smoke when using this product.
- In case of inadequate ventilation wear respiratory protection.
- Wash thoroughly after handling.
- Wear suitable protective clothing, eye/face protection and gloves
- Wear protective gloves/protective clothing/eye protection/face protection.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Yellowish liquid
- Odour: Nearly odorless
- Flashpoint: >220°C
- Specific Gravity: 1.25 ± 0.02
- Solubility in water: Insoluble in water

### 9.2 Other information

- No information available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

- Material reacts with water, forming carbon dioxide. Reacts exothermically with amines, water, and alcohols.

### 10.2 Chemical stability

- Considered stable under normal conditions

### 10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

### 10.4 Conditions to avoid

- Heat, open flame, sparks.

### 10.5 Incompatible materials

- Strong oxidizing agents, strong acids, amines, water, and alcohols

### 10.6 Hazardous decomposition products

- Combustion may emit toxic fumes
- Oxides of carbon, hydrogen cyanide

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

- Skin corrosion/irritation  
Causes severe skin burns and eye damage.
- Serious eye damage/irritation  
Causes serious eye damage.
- Respiratory or skin sensitisation  
May cause an allergic skin reaction.

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## SECTION 12: Ecological information

### 12.1 Toxicity

- No information available

### 12.2 Persistence and degradability

- No information available

### 12.3 Bioaccumulative potential

- No information available

### 12.4 Mobility in soil

- No information available

### 12.5 Results of PBT and vPvB assessment

- No information available

### 12.6 Other adverse effects

- Avoid release to the environment.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Avoid release to the environment. Refer to special instructions/Safety data sheets
- Disposal should be in accordance with local, state or national legislation
- Dispose of contents/container to an authorised waste collection point.
- Do not empty into drains - dispose of this material and container in a safe way

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## SECTION 14: Transport information



### 14.1 Air (ICAO/IATA)

- ICAO UN No.: 3082
- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Methylene diphenyl diisocyanate)
- ICAO Hazard Class: 9
- ICAO Packing Group: III

### 14.2 Road/Rail (ADR/RID)

- ADR UN No.: 3082
- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Methylene diphenyl diisocyanate)
- ADR Packing Group: III

### 14.3 Sea (IMDG)

- IMDG UN No.: 3082
- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Methylene diphenyl diisocyanate)
- IMDG Hazard Class: 9
- IMDG Pack Group.: III

### 14.4 Environmental hazards

- No information available

### 14.5 Special precautions for user

- No information available

### 14.6 Transport in bulk according to Annex II of Marpol and the IBC Code

- No information available

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- This Safety Data Sheet is provided in compliance with the EC Regulation 1907/2006-2015/830

### 15.2 Chemical safety assessment

- A REACH chemical safety assessment has not been carried out
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## **SECTION 16: Other information**

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

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