


## 1. Identification of the substance and of the supplier

|                                                                |                                                                                                                  |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Product identifier</b>                                      |                                                                                                                  |
| Product name                                                   | D3 COMMONRAIL                                                                                                    |
| <b>Recommended use of the chemical and restrictions on use</b> | Diesel engine oil                                                                                                |
| <b>Manufacture 's details</b>                                  |                                                                                                                  |
| Company Address                                                | 2098 M Tower Building, 8 <sup>th</sup> Floor, Sukhumvit Road, Phrakonong Tai, Phrakonong, Bangkok 10260 Thailand |
| Phone number                                                   | +66 2335 4999                                                                                                    |
| Fax                                                            | +66 2016 3991                                                                                                    |
| Emergency phone number                                         | +66 2335 8888                                                                                                    |

## 2. Hazards Identification

|                                                         |            |
|---------------------------------------------------------|------------|
| <b>GHS classification of the substance /mixture</b>     |            |
| Acute oral toxicity                                     | Category 5 |
| Acute inhalation toxicity                               | Category 4 |
| Respiratory or skin sensitization                       | Category 1 |
| Hazardous to the aquatic environment – long-term hazard | Category 4 |

### GHS label elements

|                            |                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pictogram                  |                                                                                                                                                                                                                                                                              |
| Signal word                | DANGER                                                                                                                                                                                                                                                                                                                                                          |
| Hazard statement(s)        | <p>H303 – May be harmful if swallowed.</p> <p>H304 – May be fatal if swallowed and enters airways.</p> <p>H332 – Harmful if inhaled.</p> <p>H361 – Suspected of damaging fertility or the unborn child.</p> <p>H372 – Causes damage to organs through prolonged or repeated exposure.</p> <p>H413 – May cause long lasting harmful effects to aquatic life.</p> |
| Precautionary statement(s) | <p>P201 – Obtain special instructions before use.</p> <p>P202 – Do not handle until all safety precautions have been read and understood.</p> <p>P260 – Do not breathe dust/fumes/gas/mist/vapours/spray.</p>                                                                                                                                                   |

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                     | <p>P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray.</p> <p>P264 – Wash skin thoroughly after handling.</p> <p>P270 – Do not eat, drink or smoke when using this product.</p> <p>P271 – Use only outdoors or in a well-ventilated area.</p> <p>P273 – Avoid release to the environment.</p> <p>P281 – Use personal protective equipment as required.</p> <p>P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P308+P313 – IF exposed or concerned: Get medical advice/attention.</p> <p>P312 – Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P314 – Get medical advice/attention if you feel unwell.</p> <p>P405 – Store locked up.</p> <p>P501 – Dispose of contents/container in accordance with local/regional/national/international regulations.</p> |
| Other hazards which do not result in classification | Not available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### 3. Composition/Information on Ingredients

| Components                                             | CAS No.    | Concentration % |
|--------------------------------------------------------|------------|-----------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | >75             |
| Additive Package                                       | CBI        | Confidential    |

### 4. First Aid Measures

|                                                                                                                           |                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Description of first aid measures</b></p> <p>Inhalation</p> <p>Skin contact</p> <p>Eye contact</p> <p>Ingestion</p> | <p>Remove from further exposure.</p> <p>Wash contact areas with soap and water. If irritation occurs, get medical assistance</p> <p>Flush thoroughly with water for 15 minute. If irritation occurs, get medical assistance.</p> <p>If swallow, DO NOT induce vomiting. Keep at rest. Get prompt medical attention</p> |
| <p><b>Indication of any immediate medical attention and special treatment needed :</b></p>                                | Treat symptomatically                                                                                                                                                                                                                                                                                                  |

### 5. Fire Fighting Measures

|                                                                                                             |                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Extinguishing media</b></p> <p>Suitable extinguishing media</p> <p>Unsuitable extinguishing media</p> | <p>Use foam, dry chemical or carbon dioxide.</p> <p>Water jet</p>                                                                                                                                    |
| <p><b>Special hazards arising from the substance or mixture</b></p>                                         | <p>Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons and soot. These may be highly dangerous if inhaled.</p> |
| <p><b>Special protective equipment and precautions for fire-fighters</b></p>                                | <p>Wear self-contained breathing apparatus for firefighting.</p>                                                                                                                                     |

|  |                                              |
|--|----------------------------------------------|
|  | Use water spray to cool unopened containers. |
|--|----------------------------------------------|

## 6. Accidental Release Measure

|                                                                            |                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Use personal protective equipment.<br>Avoid breathing dust, vapours, mist or gas.<br>Ensure adequate ventilation.<br>Evacuate personnel to safe areas.                                                                                                                    |
| <b>Environmental precautions</b>                                           | Do not let product enter drains.                                                                                                                                                                                                                                          |
| <b>Methods and materials for containment and cleaning up</b>               | For small spills, add absorbent or sand , scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. |

## 7. Handling and Storage

|                                                                     |                                                                                    |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Precautions for safe handling</b>                                | Avoid contact with eyes, skin and clothing.<br>Use only with adequate ventilation. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Keep container tightly closed. Keep container in a cool, well-ventilated area.     |

## 8. Exposure Controls/Personal Protection

|                                                                                                                             |                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Control parameters</b>                                                                                                   | Not establish                                                                                                                                            |
| <b>Appropriate engineering controls</b>                                                                                     | Use ventilation, local exhaust ventilation                                                                                                               |
| <b>Personal protective equipment</b><br>Respiratory protection<br>Skin protection<br>Eye/face protection<br>Body Protection | Breathing protection. Use filter respirator suitable for organic vapours<br>Protective gloves.<br>Wear safety goggles, safety glass<br>Chemical suit     |
| <b>Work / Hygienic Practices:</b>                                                                                           | Do not eat, drink, or smoke during work.<br>Wash hands after use.<br>Remove contaminated clothing and protective equipment before entering eating areas. |

## 9. Physical and Chemical Properties

|                                                      |                                  |
|------------------------------------------------------|----------------------------------|
| <b>Appearance and Color:</b>                         | Brown liquid, Bright&Clear       |
| <b>Odour:</b>                                        | Characteristic                   |
| <b>Kinematics Viscosity@100°C:</b>                   | 14.5-19.5 cSt                    |
| <b>Flash point:</b>                                  | >215 °C                          |
| <b>Upper/lower flammability or explosive limits:</b> | Lower : 1% v/v - Upper : 10% v/v |
| <b>Pour Point:</b>                                   | <-15 °C                          |
| <b>Relative density:</b>                             | 0.8-0.9                          |
| <b>Water solubility:</b>                             | Insoluble                        |

**10. Stability and Reactivity**

|                                           |                                   |
|-------------------------------------------|-----------------------------------|
| <b>Reactivity</b>                         | Not available                     |
| <b>Chemical stability</b>                 | Stable                            |
| <b>Possibility of hazardous reactions</b> | Will not occur                    |
| <b>Conditions to avoid</b>                | Heat, flames and sparks. sunlight |
| <b>Incompatible materials</b>             | Strong oxidized                   |
| <b>Hazardous decomposition products</b>   | Not available                     |

**11. Toxicological Information**

|                                                     |                                                                     |
|-----------------------------------------------------|---------------------------------------------------------------------|
| <b>Information on the likely routes of exposure</b> |                                                                     |
| Inhalation :                                        | Minimally Toxic. Based on assessment of the components.             |
| Skin contact :                                      | Minimally Toxic. Based on assessment of the components.             |
| Eye contact :                                       | Minimally Toxic. Based on assessment of the components.             |
| Ingestion :                                         | Minimally Toxic. Based on assessment of the components.             |
| <b>Numerical measures of toxicity</b>               |                                                                     |
| Classification of Health Hazards                    |                                                                     |
| Acute oral toxicity                                 | ATE <sub>mix</sub> 2000 - 5000 mg/kg<br>May be harmful if swallowed |
| Acute dermal toxicity                               | Not classified                                                      |
| Acute inhalation toxicity                           | ATE <sub>mix</sub> 1.0-5 mg/l<br>Harmful if inhaled                 |
| Skin corrosion / irritation                         | Not classified                                                      |
| Serious eye damage/eye irritation                   | Not classified                                                      |
| Respiratory or skin sensitization                   | Not possible to clarified                                           |
| Germ cell mutagenicity                              | Not possible to clarified                                           |
| Carcinogenicity                                     | Not possible to clarified                                           |
| Reproductive toxicity                               | Suspected of damaging fertility or the unborn child                 |
| Specific target organ toxicity - single exposure    | Not possible to clarified                                           |
| Specific target organ toxicity - repeated exposure  | Causes damage to organs through prolonged or repeated exposure      |
| Aspiration hazard                                   | May be fatal if swallowed and enters airways                        |

**12. Ecological Information**

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Ecotoxicity</b>                   |                           |
| Acute (Short- term) aquatic hazard   | Not possible to clarified |
| Long-term aquatic hazard             | Not possible to clarified |
| <b>Persistence and degradability</b> | No data available         |
| <b>Bioaccumulative potential</b>     | No data available         |
| <b>Mobility in soil</b>              | No data available         |
| <b>Other adverse effects</b>         | No data available         |
| <b>Environmental effects</b>         | No data available         |

**13. Disposal Considerations**

|                                |                                                                                    |
|--------------------------------|------------------------------------------------------------------------------------|
| <b>Waste treatment methods</b> | Dispose in accordance with local/national/international regulations.               |
| <b>Contaminated packaging</b>  | Dispose of container in accordance with local/national /international regulations. |

**14. Transport Information**

|                                     |                                  |
|-------------------------------------|----------------------------------|
| <b>UN number</b>                    | Not regulated as dangerous goods |
| <b>UN proper shipping name</b>      | Not regulated as dangerous goods |
| <b>Transport hazard class (es)</b>  | Not regulated as dangerous goods |
| <b>Packaging group</b>              | Not classified                   |
| <b>Environmental hazards</b>        | No data available                |
| <b>Transport in bulk</b>            | No data available                |
| <b>Special precautions for user</b> | No data available                |

**15. Regulatory Information**

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|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> | This material is considered hazardous according to the classification criteria of the Hazard Classification and Communication System for Hazardous Materials BE 2555. Thailand |
| <b>Chemical Safety Assessment</b>                                                                     | For this product a chemical safety assessment was not carried out                                                                                                              |

**16. Other Information**

**Created:** July 12, 2019

**Updated:** January 1, 2023

**Reference**

1. National Institute of Technology and Evaluation (SAFE NITE)

[http://www.safe.nite.go.jp/english/ghs/ghs\\_index.html](http://www.safe.nite.go.jp/english/ghs/ghs_index.html)

2. Globally Harmonized System of Classification and Labelling of Chemical (GHS), United Nation, 2011

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