

I - Identification of substance / preparation and company

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| Name of the substance or preparation | DX 8800 |
| Grade(s) | SAE 10W-30, SAE 10W-40, 15W-40 |
| CAS Number | Mixture |
| Product use | Automotive engine oils |
| Name/Company address | U & P Private Limited |
| Address | No. 2 Banyan Place Jurong Island Singapore 627700 |
| Telephone | (65) 6789 9898 |
| Fax | (65) 6861 2629 |

II - Identification of hazards

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| Classification: Not classified as hazardous according to Singapore Standard SS 586: 2014. | |
| Label Symbol | No label |
| Signal word | No signal word |
| Hazard Statement(s) | No known significant effects or critical hazards |
| Precautionary Statement(s) | <u>General:</u> P101: If medical advice is needed, have product container or label on hand. P102: Keep out of reach of children. P103: Read label before use. <u>Disposal:</u> P501: Dispose of contents and container in accordance with local regulations. |

III - Composition / Component Data

Substance/mixture: Mixture
CAS number : Not applicable.

| Components | CAS number | Approx. % wt |
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| Highly refined mineral base stocks | Which may include some of the following: 64742650, 68649127, 68037014, 64742558, 64742547 | 80 - 90 |
| Proprietary additives | Mixture | 10 - 20 |
| Zinc dialkyldithiophosphate | 68649-42-3 | <1 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

IV - First Aid

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| In the event of serious problems : | Call a doctor or summon medical assistance urgently. |
| Information in the event of : | |
| - inhalation : | Take the person into the fresh air. |

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| - contact with the skin | Rinse off with water and remove contaminated clothing. |
| - contact with the eyes: | As a precaution, remove contact lenses, if worn. Bathe the eyes with sterile water |
| - ingestion : | Do not induce vomiting. If person is conscious, give water or milk. Never give anything by mouth to an unconscious person. Take the victim to hospital as soon as possible. |

V - Fire-fighting procedures

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| Methods of extinguishing | CO ₂ , foam or dry chemical. Use fire extinguishing methods suitable to surrounding conditions. |
| Flash point | > 200°C |
| Fire fighting instructions | See Section 7 for proper handling and storage. |
| Special methods of action | None. |
| Combustion or decomposition products | Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. |
| Protection for fire-fighters | Wear full protective clothing and positive pressure breathing apparatus. |

VI - Measures to be taken in the event of accidental dispersion

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| Individual precautions : | Depending on the risk of exposure, wear gloves, goggles, and protective clothing. |
| Environmental protection precautions: | Design the installations and take all the measures necessary to avoid water and soil pollution : Containment, absorbent materials, etc. |
| Methods of cleaning : | Remove all sources of fire |
| Recovery : | Dam and then recover with the aid of physical resources. |
| Disposal : | Send contaminated materials to an approved collection facility. |

VII - Handling and storage

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| General handling information | Avoid contaminating soil or releasing this material into sewage, drainage systems and bodies of water. Do not get into eyes, on skin, or on clothing. Keep out of the reach of children. Wash thoroughly after handling. |
| Prevention of worker exposure | Ensure adequate ventilation is provided if there is any risk of vapours, mists, or aerosols forming |
| Storage | Keep well away from sources of heat. Avoid the accumulation of static electricity. Provide earthing. Use only receptacles, joints, pipes etc. which are resistant to hydrocarbons. Review all operations which have the potential of generating and accumulating an electrostatic |

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| | charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. |
| Storage conditions | Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. |
| Container warning | Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapour) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly. |

VIII - Exposure controls / personal protection

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| General considerations | Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. | | |
| Technical measures | Use the product in a well-ventilated atmosphere with anti-deflagrating materials | | |
| Monitoring parameters : | | | |
| Occupational Exposure limit (Oil Mist) | Country/ Agency | TWA | Ceiling/ Notation |
| | ACGIH | 5 mg/m ³ | 10 mg/m ³ (STEL) |
| | Singapore | 5 mg/m ³ | 10 mg/m ³ (STEL) |
| | Note: Limits/standards shown for guidance only. Follow applicable regulations. | | |
| Respiratory protection | Wear appropriate breathing equipment if exposure levels exceed the limit values. | | |
| Protection for the hands | Use impermeable hydrocarbon-resistant gloves. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton. | | |
| Protection for the eyes | Wear goggles in the event of the risk of | | |

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| | emissions. |
| Hygiene measures | Avoid prolonged and repeated contact with skin. |

IX - Physical and chemical properties

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| Physical state at 20°C | Liquid |
| Colour | Pale amber |
| Odour | Mild odour |
| pH | Not applicable |
| Flash point (Cleveland Open Cup) | >200°C |
| Auto ignition temperature | No data available |
| Boiling point | ~315°C |
| Vapour pressure | <0.01 mmhg @ 37.8°C (100°F) |
| Vapour density (Air = 1) | >1 |
| Density at 15 °C | 0.84 – 0.88 kg/l |
| Solubility | Soluble in hydrocarbon; Insoluble in water |
| Freezing point | No data available |
| Viscosity at 40°C | 70 - 120 cSt |

X - Stability and reactivity

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| Stability | Stable product at conventional temperatures for storage, handling, and use. |
| Dangerous reactions | - |
| Substances to be avoided | Avoid powerful acids and oxidising agents |

XI - Toxicological data

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| Toxicity data | Highly-refined petroleum lubricant oils Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested. |
| Acute toxicity : | |
| Contact with the eyes | May cause eye damages. Not expected to cause prolonged or significant irritation or injury during normal industrial use based on toxicological tests on this product. |
| Contact with the skin | Not expected to cause irritation or injury during normal industrial use based on toxicological tests on this product. Prolonged or repeated skin contact may cause skin irritation including |

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| | <p>redness, burning, drying, cracking, dermatitis, oil acne and folliculitis.</p> <p>DL 50 > 5.0 g/kg (rabbit) OSHA: Non toxic. Based on component(s)</p> |
| - Acute dermal toxicity | The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components. |
| - Skin irritation | The skin irritation hazard is based on evaluation of data for similar materials or product components. |
| - Skin sensitization | The skin sensitization hazard is based on evaluation of data for similar materials or product components. |
| Ingestion | <p>Expected to be harmful if swallowed. May cause irritation of the gastrointestinal system. Symptoms may include nausea.</p> <p>DL 50 > 5.0 g/kg (rabbit) OSHA: Non toxic. Based on component(s)</p> |
| - Acute oral toxicity | The acute oral toxicity hazard is based on evaluation of data for similar materials or product components. |
| Inhalation | <p>Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.</p> |
| - Acute inhalation toxicity | The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components. |
| Acute toxicity estimate | Not determined |
| Additional toxicological information | <p>This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3). During use in engines, contamination of oil with low levels of</p> |

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| | cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. |
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XII - Ecological data

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| Ecotoxicity | This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components. |
| Mobility | No data available |
| Persistence and degradability | This material is not expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components. |
| Potential to bioaccumulate | Bioconcentration factor: no data available Octanol/water partition coefficient: no data available |

XIII – Disposal considerations

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| Surplus or wastes | Do not discharge into the sewerage system or natural environment. This product can be disposed of in a suitable incinerator provided that national/local legislation is complied with. |
| Methods relating to elimination | Recovery by a Specialist Waste Contractor, with recycling or incineration in an approved facility. |

XIV - Data relating to transport

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| The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements. | |
| DOT Classifications: | Lubricating Oil. Not regulated as Hazardous material for transportation under 49 CFR. |
| IMO/IMDG shipping description | Lubricating Oil. Not regulated as Dangerous goods for transportation under IMDG code |
| ICAO/IATA shipping description | Lubricating Oil. Not regulated as Dangerous goods for transportation under ICAO TI or IATA DGR |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable |
| Other information | Not dangerous cargo. Keep separate from foodstuffs. |

XV - Regulatory data

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| TSCA Inventory | This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory. |
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| SARA 302/304 Emergency Planning and Notification | <p>The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355.</p> <p>No component was identified.</p> |
| SARA 311/312 Hazard Identification | <p>The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories:</p> <p>No SARA 311/312 hazard categories identified.</p> |
| SARA 313 Toxic Chemical Notification and Release Reporting | <p>This product contains the following components in concentrations above <i>de minimis</i> levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA:</p> <p>Zinc and zinc compounds, Concentration: <1%</p> |
| CERCLA | <p>The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are:</p> <p>Zinc and zinc compounds, Concentration: <1%</p> |
| Clean Water Act (CWA) | <p>This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.</p> |
| OSHA Classification | <p>Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200, because it carries the occupational exposure limit for mineral oil mist</p> |
| Ozone Depleting Substances (40 CFR 82 Clean Air Act) | <p>This material does not contain nor was it directly manufactured with any Class</p> |

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| | I or Class II ozone depleting substances |
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XVI - Other information

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| Recommended uses and restriction on use : | Use of the product : see section I |
| Revision date | 26 July 2018 (new) |
| Reason(s) for revision | - |
| Others | No further information |

This dossier supplements the technical notifications for use, but does not replace them. The information which it contains is based on our knowledge relating to the product in question on the date indicated.

The information is given in good faith. The user's attention is also drawn to possible risks incurred if a product is employed for uses other than those for which it was designed.

The information dossier does not, under any circumstances, discharge the user from the obligation of being aware of, and of applying, all the texts which govern his sphere of activity. He shall be solely responsible for taking the precautions associated with the use which he makes of the product.

All the statutory provisions referred to are intended simply to assist the recipient in fulfilling the obligations incumbent upon him. This enumeration must not be considered to be exhaustive.

The recipient must ensure that no obligations are incumbent upon him, as a result of texts other than those cited, relating to the holding and handling of the product, for which he alone is responsible.

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