# MATERIAL SAFETY DATA SHEET

## 1. SUBSTANCE AND COMPANY IDENTIFICATION

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| PRODUCT NAME | **PURA® 43007** |
| PROPER SHIPPING NAME | FLAMMABLE LIQUID, N.O.S. (CONTAINS ALIPHATIC HYDROCARBONS AND n-HEXANE) |
| RECOMMENDED USE | RELEASE AGENT |

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| COMPANY NAME | **Chem-Trend Australia Pty. Ltd.** | **Chem-Trend New Zealand Limited** |
| ADDRESS | 32 Cahill Street, Dandenong, Victoria 3175 Australia. | Suite 31, 300 Richmond Road, Grey Lynn, Auckland, New Zealand. |
| TELEPHONE | (03) 9794 5877 | (09) 360 3238 |
| EMERGENCY TELEPHONE | (03) 9794 5877 9a.m. to 5 p.m. | 021 278 8929 9 a.m. to 5 p.m. |
| AFTER HOURS EMERGENCY | 000 Police or Emergency Services | 111 Police or Emergency Services |
| POISONS CENTRE | 13 11 26 | 0800 764 766 |

## 2. HAZARDS IDENTIFICATION

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| HAZARD CLASSIFICATION AUSTRALIA | DANGEROUS GOODS. HAZARDOUS. Classified as Hazardous according to criteria of NOHSC. Harmful (Xn). |
| HAZARD CLASSIFICATION NEW ZEALAND | HAZARDOUS. Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. |
| NZ CLASSIFICATION & TYPE | 3.1B, 6.1D, 6.4A, 6.8B, 6.9A, 9.1A |
| POISONS SCHEDULE | AUST: SCHEDULE 5 POISON. NZ: SCHEDULE 4 POISON |
| ISK PHRASES | R11 Highly Flammable, R65 Harmful: may cause lung damage if swallowed, R62 Possible risk of impaired fertility, R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R67 Vapours may cause drowsiness and dizziness. R66 Repeated exposure may cause skin dryness. R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. |
| SAFETY PHRASES | S9 Keep container in a well-ventilated place. S16 Keep away from sources of ignition. S29 do not empty into drains. S33 Take precautionary measures against static discharge. S23 Do not breathe gas/fumes/vapour/spray. S24 Avoid contact with skin. S45 In case of accident of if you feel unwell, seek medical advice immediately (show the label whenever possible) S51 Use only in well ventilated areas. S53 Avoid exposure - obtain special instructions before use. S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. S61 Avoid Release to the environment. |

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

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| PURE SUBSTANCES | Hydrocarbon Naphtha | 64742-49-0 | 5-15% |
| | n-Hexane | 110-54-3 | 5-15% |
| | Cyclohexane | 110-82-7 | 10-15% |
| | Heptane and isomers | - | 10-15% |
| MIXTURE | Polydimethyl Siloxane Blend | Mixture | <60% |

## 4. FIRST AID MEASURES

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| SYMPTOMS AND HEALTH EFFECTS | **Swallowed:** May cause irritation of the gas gastrointestinal (digestive) tract irritation, nausea and diarrhoea. Ingestion of large amounts will result in drowsiness, fatigue, loss of appetite, tingling in the hands and feet. Possibility of muscle weakness, cold pulsation in extremities (hands and feet), blurred vision, headache & nausea. Do not induce vomiting because of the danger of aspiration of the solvent into the lungs which can be fatal due to chemical pneumonitis.<br>**Eye:** Vapour concentrations above the recommended exposure levels may be irritating to the eyes and liquid splashed into the eye will probably cause discomfort and irritation.<br>**Skin:** Prolonged or repeated contact can defat skin which may cause irritation or dermatitis.<br>**Inhalation:** Vapour concentrations above the recommended exposure levels may cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache and even asphyxiation (at extreme levels). Could be anaesthetic and may have other central nervous system effects.<br>**Chronic:** This product contains n-hexane. Overexposure to n-hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs. |
| WORKPLACE FACILITIES | Eye Wash and normal washroom facilities. |

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| FIRST AID INSTRUCTIONS | **Swallowed:** If product is swallowed, DO NOT induce vomiting. Keep at rest. Seek medical attention immediately.<br>**Eye:** If product comes in contact with eyes flush with large amounts of water for at least 15 minutes holding eyes open. Seek medial attention.<br>**Skin:** It product comes in contact with skin wash with soap and large amounts of water. Remove contaminated clothing and shoes. Seek medical attention if irritation develops or persists. Launder clothing before reuse.<br>**Inhalation:** If adverse effects such as dizziness, nausea or irritation are noted move victim to fresh air. Keep at rest. Seek prompt medical attention. |
| SPECIAL TREATMENT | **Advice to Doctor:** Treat symptomatically. |

## 5. FIRE FIGHTING MEASURES

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| FIRE HAZARDS | Flammable Liquid. Remove all sources of ignition, heat, sparks and flames. Closed fire exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture. Do not cut, puncture or weld on empty drum because it may contain explosive or harmful vapours. | | |
| FIRE HAZARD PROPERTIES | **FLASH POINT** | <0oC | |
| | **FLAMMABLE LIMITS IN AIR** | Lower (LEL):0.9% | Upper (UEL): 7% |
| | **AUTO IGNITION** | Not known | |
| | **FLAMMABLITIY CLASSIFICATION** | AUS: Class 3 | NZ: Class 3.1B |
| | **HAZARDOUS DECOMPOSITION OR BY-PRODUCTS** | Carbon monoxide and Carbon dioxide | |
| | **HAZARDOUS REACTIONS** | None known. | |
| EXTINGUISHING MEDIA | Use water spray to cool fire exposed surfaces and to protect personnel. If a leak or spill has not ignited use water spray to disperse the vapours. Extinguish with foam or dry chemical. | | |
| HAZCHEM | 3(Y)E | | |
| FIRE FIGHTING EQUIPMENT | Fire fighter should wear self contained breathing apparatus (SCBA) when fire fighting in a confined space. | | |

## 6. ACCIDENTIAL RELEASE MEASURES

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| SPILLS AND LEAKS | Eliminate all ignition sources. Vapours are heavier than air and may spread long distances or collect in low spots. Wear protective equipment as specified in the PPE section of this MSDS. Shut off source of spill is possible and safe to do so. Prevent liquid from entering sewers, watercourses, or low-lying areas. Contain with sand or earth. Collect absorbed material using non sparking tools. See Section 13 for Disposal Considerations. |

## 7. HANDLING AND STORAGE

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| PRECAUTIONS FOR SAFE HANDLING | Flammable Liquid. Do not open near open flame, sources of heat or ignition. Remove all sources of ignition, heat, sparks and flames. Open slowly to control possible pressure release. Take precautionary measures against electrostatic loading, ground all equipment pumping product. Do not cut, puncture or weld on empty drum because it may contain explosive or harmful vapours. Wear PPE as specified in the PPE section of this MSDS. Use exhaust ventilation as specified in Engineering Controls section of this MSDS. Do not eat, drink or smoke while using this product. |
| CONDITIONS FOR SAFE STORAGE | Store in a well ventilated area away from heat and sources of ignition. Protect from direct sunlight. Store away from strong oxidisers. Store in suitable labelled containers. Have appropriate fire extinguishers available in and near the store area. Keep containers closed when not in use. |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (PPE)

| EXPOSURE STANDARDS | NAME | TWA | | STEL | | FOOTNOTE |
|---|---|---|---|---|---|---|
| | | ppm | Mg/m3 | ppm | mg/m 3 | |
| AUSTRALIAN NOHSC | Hydrocarbon Naphtha | 159 | 600 | - | - | Supplier |
| | n-Hexane | 20 | 72 | - | - | NOHSC |
| | Heptane & isomers | 400 | 1640 | - | - | NOHSC |
| | Cyclohexane | 100 | 350 | 300 | 1050 | NOHSC |
| NEW ZEALAND WES | n-Hexane | 20 | 72 | - | - | NOHSC |

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| ENGINEERING CONTROLS | Ensure ventilation is adequate to maintain air concentrations below exposure standards. If local exhaust ventilation is used, ensure sufficient air is replaced to compensate the air that has been removed. Vapour is heavier than air and will tend to accumulate in hollows or sumps. DO NOT enter confined spaces where vapours may have collected. |
| RESPIRATOR TYPE (AS/NZS1716) | Good industrial hygiene practices recommend that engineering controls (such as local and/or mechanical ventilation be used to reduce environmental concentrations to the permissible exposure level. Respirators may be used when engineering and work practice controls are not technically feasible, when such controls are in the process of being installed, or when they fail and need to be supplemented. If the use of a respirator is necessary use only AS/NZS1716 or AS1715 approved air supplied respirator o an air-purifying respirator. |
| EYE PROTECTION | Safety glasses with side shields or chemical goggles. |
| GLOVE TYPE | Impervious gloves (such as Nitrile). |
| CLOTHING | Appropriate clothing to avoid skin contact. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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| APPERANCE / ODOUR | Clear Liquid, Naphtha Odour |
| PH VALUE | Not applicable |
| VAPOUR PRESSURE | Not available |
| VAPOUR DENSITY (Air =1) | Not available |
| BOILING POINT | 75-118°C (range) |
| MELTING / FREEZING POINT | Not available |
| SOLUBILITY IN WATER | Nil |
| SPECIFIC GRAVITY | 0.83 |
| FLASH POINT | <0°C |
| % VOLATILE BY WEIGHT | 90-95% |
| EVAPOURATION RATE | Not available |
| ADDITIONAL INFORMATION | Additional information can be found in Section 5 Fire Hazard Properties and in section 10 Stability / Reactivity. |

## 10. STABILITY AND REACTIVITY

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| STABILITY | Stable |
| CONDITIONS TO AVOID | None |
| INCOMPATIBILITY | Natural Rubber, Butyl Rubber, EPDM, Polystyrene |

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| HAZARDOUS DECOMPOSITON PRODUCTS | No decomposition products except on burning. |
| HAZARDOUS POLYMERIZATION / CONDITIONS TO AVOID | Will not occur |
| SPECIFIC DATA FOR MIXTURE | As above |
| SPECIFIC INGREDIENT DATA | Not available |

## 11. TOXICOLOGICAL INFORMATION

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| TOXICITY DATA | This product contains n-Hexane. Overexposure to n-Hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs. The effects of this product in combination with MEK are greatly increased.<br>n-hexane: 28710mg/kg (oral, rat)<br>n-hexane: 190ppm (inhalation, human) |

## 12. ECOTOXICITY INFORMATION

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| ECOTOXICITY DATA | This product can degrade rapidly in air. Based upon data for a similar component or preparation, or estimated data, expected to be toxic to aquatic organisms. Long term adverse effects to aquatic organisms are possible if continuous exposure is maintained.<br>Aliphatic hydrocarbon: Fish toxicity (rainbow trout, goldfish, bluegill): LC50(96hr) Daphnia Magna EC50 (24hr); Daphina Magna EC50 (48hr) Long term adverse effects to aquatic organisms are possible if continuous exposure is maintained. |
| ENVIRONMENTAL RISK PHRASES | R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. |

## 13. DISPOSAL CONSIDERATIONS

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| **DISPOSAL METHODS** | Disposal should be done by an authorised Disposal Management Company. |
| **SPECIAL PRECAUTIONS** | New or used mineral oils or solvents must not be allowed to enter the ground, ground water, water course, sewerage's or drainage systems. Advice should be sought from the Environmental Protection Agency or from an authorised disposal authority. |

## 14. TRANSPORT INFORMATION

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| **UN NUMBER** | 1993 |
| **CLASS** | 3 |
| **PACKING GROUP** | II |
| **HAZCHEM** | 3(Y)E |
| **PROPER SHIPPING NAME** | FLAMMABLE LIQUID, N.O.S. (CONTAINS ALIPHATIC HYDROCARBONS AND n-HEXANE) |
| **TRANSPORT** | This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail.<br>Class 3 - Flammable Liquids are incompatible in a placard load with any of the following;<br>Class 1, Explosives<br>Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk<br>Class 2.3, Toxic Gases<br>Class 4.2 Spontaneously Combustible Substances<br>Class 5.1 Oxidising Agents and Class 5.2, Organic Peroxides<br>Class 6 Toxic Substances (where the flammable liquid is nitromethane)<br>Class 7 Radioactive Substances. |
| **EPG Number** | 3A1 |
| **ERG Number** | 14 |
| **EmS Number** | F-E, S-E |

## 15. REGULATORY INFORMATION

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| **AUSTRALIA** | Hazardous according to NOHSC: Harmful (Xn). Schedule 5 Poison: Caution. Ingredients are AICS listed. |
| **NEW ZEALAND** | Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. |

## 16. OTHER INFORMATION

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| **REFERENCES** | SF-47 14/10/05 |
| **DOCUMENT NUMBER** | MSDS-484 14/10/2005 |