

1. Product and Company Identification

Material name Orchex® 796
Version # 03
Revision date 10-26-2011
CAS # 64742-55-8
Manufacturer information Calumet Specialty Products Partners, L.P.
 2780 Waterfront Pkwy E. Dr.
 Suite 200
 Indianapolis, IN 46214 United States
 www.calumetlubricants.com
 Technical Services 317-328-5660
 CHEMTREC International 703-527-3887

2. Hazards Identification

Emergency overview Health injuries are not known or expected under normal use.
OSHA regulatory status This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects
Routes of exposure Not applicable.
Eyes Health injuries are not known or expected under normal use.
Skin Health injuries are not known or expected under normal use.
Inhalation Health injuries are not known or expected under normal use.
Ingestion Health injuries are not known or expected under normal use.
Potential environmental effects Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

| Non-hazardous components | CAS # | Percent |
|--------------------------------------------------------|------------|---------|
| DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC | 64742-55-8 | 100 |

4. First Aid Measures

First aid procedures
Eye contact Rinse with water. Get medical attention if irritation develops and persists.
Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
General advice If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties Not flammable by OSHA criteria. Not combustible by OSHA criteria.
Extinguishing media
Suitable extinguishing media Water fog.
Unsuitable extinguishing media Water. Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters
Protective equipment and precautions for firefighters Wear suitable protective equipment.
Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

6. Accidental Release Measures

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|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions | Keep unnecessary personnel away. |
| Methods for containment | ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. |
| Methods for cleaning up | <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.</p> |

7. Handling and Storage

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|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling | DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Handle and open container with care. |
| Storage | Keep away from heat, sparks and open flame. Use care in handling/storage. |

8. Exposure Controls / Personal Protection

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|---------------------------------------|---------------------------------------------------------------------------|
| Personal protective equipment | |
| Eye / face protection | Not normally needed. |
| Skin protection | Normal work clothing (long sleeved shirts and long pants) is recommended. |
| Respiratory protection | No personal respiratory protective equipment normally required. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. |

9. Physical & Chemical Properties

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|-------------------------------------------------------|----------------------------------------------|
| Appearance | Product is water-white to pale straw liquid. |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | L0.5 ASTM D1500 |
| Odor | Hydrocarbon |
| Odor threshold | Not available. |
| pH | Not applicable. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Boiling point | 707 °F (375 °C) estimated |
| Melting point/Freezing point | Not available. |
| Solubility (water) | Negligible. |
| Specific gravity | < 0.871 |
| Relative density | Not available. |
| Flash point | > 360 °F (> 182.2 °C) |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Auto-ignition temperature | 586.4 °F (308 °C) estimated |
| Viscosity | 70 SUS |
| Viscosity temperature | 100 °F (37.8 °C) |
| Pour point | < 20 °F (< -6.7 °C) |
| Other data | |
| Density | 0.8427 g/cm ³ |

10. Chemical Stability & Reactivity Information

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|-----------------------------------------|------------------------------------------------------------------------|
| Chemical stability | Material is stable under normal conditions. |
| Conditions to avoid | Heat, flames and sparks. Avoid temperatures exceeding the flash point. |
| Incompatible materials | Not available. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological Information

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|----------------------------|---------------------------------------------------------------------------------|
| Carcinogenicity | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. |
| Further information | This product has no known adverse effect on human health. |

12. Ecological Information

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|--------------------------------------|------------------------------------------------------|
| Ecotoxicity | This product has no known eco-toxicological effects. |
| Persistence and degradability | Not available. |

13. Disposal Considerations

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|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. |

14. Transport Information

DOT NON-BULK

Not regulated as dangerous goods.

DOT BULK

Not regulated as dangerous goods.

15. Regulatory Information

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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US federal regulations | This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

CERCLA/SARA Hazardous Substances - Not applicable.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

Not regulated

DEA Essential Chemical Code Number

Not regulated

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

DEA Exempt Chemical Mixtures Code Number

Not regulated

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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|--------------------------|--------------------------------------------------------------------------------------------------------------------|
| Hazard categories | Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No |
|--------------------------|--------------------------------------------------------------------------------------------------------------------|

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Inventory status

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------------------|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 0
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 0
Flammability: 1
Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

Issue date

10-26-2011

This data sheet contains changes from the previous version in section(s):

This document has undergone significant changes and should be reviewed in its entirety.