



MATERIAL SAFETY DATA SHEET

Date of Issue: May 2007

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ChemTools High Temperature Oil
Product Type: Mineral Oil
Company Address: ChemTools Pty. Ltd., PO Box 4319, Penrith, NSW 2750
Ph: 02 4635 3746
EMERGENCY PHONE: Australia: Poisons Information Centre 13 1126
International: Infotrac (708) 918 1900

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	CAS #	%	ACGIH TLV	OSHA PEL
No Reportable Hazardous Substance(s) or Complex Substance(s)		100	None	None

3. HAZARDS IDENTIFICATION

Relevant routes of exposure:
Potential Health Effects This material is not considered to be hazardous according to regulatory guidelines

HMIS:

HEALTH: 0 **FLAMMABILITY:** 1 **REACTIVITY:** 0

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin contact: Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse.
Get medical attention if symptoms occur.
Eye contact: Flush with copious amounts of water for at least 15 minutes, holding eyelids open all the time. If irritation occurs, get medical attention.
Ingestion: First Aid not normally required. Seek medical attention if discomfort occurs

5. FIRE-FIGHTING MEASURES

Flash point: Greater than 282°C (540°F) [ASTM D-92]
Autoignition temperature: Not available
Flammable/Explosive limits-lower %: 0.9%
Flammable/Explosive limits-upper %: 7.0%
Extinguishing media: Water fog, foam, dry chemical or carbon dioxide.
Special fire fighting procedures: None
Unusual fire or explosion hazards: None
Hazardous combustion products: Oxides of carbon. Oxides of sulphur. Aldehydes. Smoke. Fume.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.
Clean-up methods: Soak up with inert absorbent. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling: Prevent small spill and leakage to prevent slip hazard. Wash thoroughly after handling.
Storage: For safe storage, store at or below 38°C (100°F). Keep in a cool, well ventilated. Keep container closed until ready for use.
Incompatible products: Refer to Section 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limits.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Skin protection:	Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves. butyl rubber gloves. Natural rubber gloves.
Eye/face protection:	Safety goggles or safety glasses with side shields.
Exposure Limits/standards for materials that can be formed when handling this product:	
When mists/aerosols can occur, the following are recommended:	
	5 mg/m ³ - ACGIH TLV 10 mg/m ³ - ACGIH STEL 5 mg/m ³ - OSHA PEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Brown
Odour:	Characteristic
Vapour pressure:	<0.013 kPa (0.1 mm Hg) at 20°C
pH:	Not applicable
Boiling point/range:	Greater than 316°C (600°F)
Melting point/range:	Not available
Specific gravity:	0.9 at 15°C (75°F)
Vapour density:	>2 at 101Kpa
Viscosity:	375 cSt (375 mm ² /sec) at 40°C., 28 cSt (28 mm ² /sec) at 100°C
Evaporation rate:	Not available
Solubility in water:	Negligible

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Oxides of sulphur. Irritating organic vapours.
Incompatibility:	Strong oxidizers.
Conditions to avoid:	Excessive heat. High energy sources of ignition.

11. TOXICOLOGICAL INFORMATION

Product toxicity data:	
Inhalation:	LC50 > 5,000 mg/m ³ (rat) Minimally toxic. Based on test data for structurally similar materials.
Ingestion:	LD50 > 2,000 mg/kg (rabbit) Minimally toxic. Based on test data for structurally similar materials.
Skin:	LD50 > 2,000 mg/kg (rabbit) Minimally toxic. Based on test data for structurally similar materials.
Eye:	May cause mild, short-lasting discomfort to the eyes. Based on test data for structurally similar materials.

Chronic/Other Effects: Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitising in test animals

Carcinogen Status:	1=NTP Carc	3=IARC 1	5=IARC 2B
	2=NTP Sus	4=IARC 2A	6=OSHA CARC

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Material - Not expected to be harmful to aquatic organisms.
Mobility:	Base oil component - Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.
Persistence and Degradability:	
Biodegradation:	Base oil component - Expected to be inherently biodegradable.
Bioaccumulation Potential:	Base oil component - Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

13. DISPOSAL CONSIDERATIONS

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.



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EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Unrestricted

Hazard class or division: None

Identification number: None

Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Unrestricted

Hazard class or division: None

Identification number: None

Packing group: None

Water Transportation (IMO/IMDG):

Proper shipping name: Unrestricted

Hazard class or division: None

Identification number: None

Packing group: None

Marine pollutant: None

15. REGULATORY INFORMATION

United States Regulatory Information

OSHA Hazard Communication Standard:

When used for its intended purpose, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910. 1200.

National Chemical Inventory Listing: AICS, DSL, EINICS, KECI, PICCS, TSCA.

EPCRA: This material contains no extremely hazardous substances.

SARA 311/312: None

SARA 313: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

DISCLAIMER:

The information contained within this MSDS applies only to the ChemTools product to which the sheet relates. The information provided is based on our best knowledge at the time of issue.

The information contained within this MSDS is believed to be accurate and is given in good faith. However, no warranty is made, either expressed or implied, regarding its accuracy or any liability arising out of the use of the information herein or the product supplied.

When used in other preparations, formulations, or in mixtures, it is necessary to ascertain whether the classifications of the hazards have changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purpose other than that for which it was recommended. In such cases, a reassessment may be necessary and should be made by the user.

This safety data sheet should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work.

It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come in to contact with, handle or use this product in any way.

They should check the adequacy of the information provided within this MSDS before passing it on to their customers/staff.