

HEAT TRANSFER OILS

MATERIAL SAFETY DATA SHEET

MSDS No:		QUICK SMART PRODUCTS
Product Name:	HEAT TRANSFER OILS	53 ASSEMBLY DRIVE
Manufacturers Code:	HTO-5, HTO-20, HTO-205	TULLAMARINE VIC 3043
Date:	1 st July, 2007	(03) 9338 6655 (BH) (03) 9336 7945 (AH)

STATEMENT OF HAZARDOUS NATURE:

NON HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

IDENTIFICATION

U/N No	NA	Main Class	NA
Subsidiary Risk:	NA	HAZCHEM	NA
Poisons Schedule:	NA	CAS No	NA

PHYSICAL DESCRIPTION / PROPERTIES

Appearance:	Brown Oily Liquid	Odour:	Oily Odour
Density	@ 15°C 0.878Kg/L	Vapour Pressure	
Flash Point	204°C (PMP)	Non Piloted Ignition Temp	
	Test Method ASTM D 445		
Solubility	Insoluble	Reactivity Hazards	May reacts with oxidising agent.
Kinematic	32.0mm ² /S @ 40°C	Viscosity	5.4mm ² /S @ 100°C
	Test Method: ASTM D 445		Test Method: ASTM D 445

Hazardous Decomposition:	Thermal decomposition can produce a variety of compounds, which depends on decomposition conditions. Incomplete combustion / thermal decomposition will generate smoke, carbon dioxide and hazardous gases, which include carbon monoxide.
Conditions to Avoid:	Under normal use, product is unlikely to react in a hazardous manner. Spillage may penetrate the soil causing ground water contamination. Product is inherently biodegradable, no evidence to suggest bioaccumulation will occur. Spills on water may form a film causing physical damage to organisms, oxygen transfer could also be impaired.

PROPORTION (% weight per weight)

VHIGH > 60. HIGH 30 – 60 MED 10 – 29 LOW 1 – 9 VLOW < 1

USES

High performance heat transfer oil.

INGREDIENTS:

Chemical Entity	CAS NO	PROPORTION	
Blend of severely solvent refined base oils with a proprietary performance additives at sufficiently low levels as to not require hazardous classification.		VHIGH > .60%	

SAFE HANDLING INFORMATION

Storage & Transport:	Classified as a C2 Combustible Liquid for the purpose of storage and handling. Store in a well ventilated place away from ignition sources, oxidizing agents, foodstuffs and clothing. Keep containers closed when not in use. Dispose of any soaked material as soon as possible.
Spills & Leaks:	Slippery when spilt. Avoid accidents. Clean up immediately. Wear protective equipment to prevent skin and eye contact and inhalation of vapours. Contain using sand or soil – prevent run off into sewers, drains and waterways, advise local authorities immediately if release into sewer and / or waterways is expected to have occurred. Collect by vacuum truck or absorbent material and seal in properly labelled drums for disposal. Wash area down with detergent and excess water.

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Waste Disposal:	Refer to State Land Waste Management Authority.
Fire & Explosion Data:	Combustible liquid, will burn if involved in a fire, but not considered a significant fire risk. Fire fighters to wear self contained breathing apparatus if risk of exposure to vapour or products of combustion. Keep storage tanks, pipelines, fire exposed surfaces cool with water spray. Shut off any leak, if safe to do so and remove from ignition sources.
Extinguishing Media:	Cooling by water jets, water spray, water fog. Extinguishing by foam, CO2 (carbone dioxide) or dry agent (dry chemical powder).

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Swallowed:	Harmful if swallowed in large doses, may cause nausea and diarrhoea. In small doses flush mouth with water.
Eye:	A slight to moderate eye irritant.
Skin:	Mild irritation, prolonged and repeated contact may cause dermatitis. Prolonged repeated exposure may cause more serious effects.
Inhaled:	Vapours generated through elevated temperatures or mists can cause irritation to the nose and throat. Prolonged high exposure can cause more serious effects.

TREATMENT

Swallowed:	Do NOT induce vomiting. Seek immediate medical assistance.
Eye:	Immediately irrigate eyes, with water eyelids held open with copious quantities of clean water for at least 20 minutes. If irritation persists seek medical advice.
Skin:	Wash contaminated skin with soap and clean water. Remove contaminated clothing and wash before re-use, discard internally contaminated items, like gloves and footwear. If irritation occurs seek medical advice.
Inhaled:	Remove victim for exposure to fresh air – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. If NOT breathing apply artificial respiration and seek URGENT medical attention. Allow patient to assume most comfortable position and keep warm. Keep victim at rest until fully recovered. Seek medical advice, if any effects persist.

PRECAUTIONS FOR USE:

Exposure Standards:	TWA: Time Weighted Average airborne concentrations over an eight hour working day, for five day working week over an entire working life. (Oil Mist) 5mg/m ³
	STEL: Short Term Exposure Limit average airborne concentration over a 15 minute period, which should not be exceeded at any time during a normal 8 hour day. (Oil Mist) 10mg/m ³
Ventilation:	Special ventilation is NOT normally required due to low volatility of the product at normal temperatures. In the operation of certain equipment or at higher temperatures, mist or vapour may be generated and exhaust ventilation should be used to maintain airborne concentration levels below the exposure standard. Where no exposure standard is stated, keep as low as practicable.

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Personal Protection:	Overalls, Safety Shoes, Goggles, Gloves, Respirator Avoid skin and eye contact and inhalation of vapour and mist. If exposure is likely, personal protective equipment as appropriate and to the degree of exposure should be used. Wear PVC apron with sleeves or PVC coveralls. Chemical goggles and PVC or rubber gloves and boots. Where the concentration of vapour or mist is expected to reach exposure limits use the following equipment. Short elevated exposures, spillage – goggles and correct respiratory protection should be worn. If exposure limits exceed 10 times concentration limits, air supplied apparatus should be used. Prolonged elevated exposures, full face air supplied or self contained breathing apparatus to be used complying with AS1716-1984 "Respiratory Protective Devices".
Contamination:	Change clothing and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse. Observe good personal hygiene. Eye wash fountain and safety showers should be available for emergency use.

CONTACT POINT

Contact:	WALLY DAY 03 9338 6655
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