

HEAT TRANSFER OILS

SAFETY DATA SHEET

MSDS No: Product Name: Manufacturers Code: Date:	HEAT TRANSFER OILS HTO-5, HTO-20, HTO-205 September 2020	QUICK SMART PRODUCTS 53 ASSEMBLY DRIVE TULLAMARINE VIC 3043 ABN: 40 959 725 049 Ph: (03) 9338 6655 (BH) Fax: (03) 9335 2598 Email: gsmart@bigpond.net.au Web: www.quicksmartproducts.com.au
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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	HEAT TRANSFER OILS
Company Name:	QUICK SMART PRODUCTS
Address:	53 Assembly Drive Tullamarine Vic 3043
Telephone/Fax:	(03) 9338 6655 (BH) Poisons Information Centre 131126 (AH) (03) 9336 7945 (AH)
Recommended Use:	For use in closed transfer systems

2. HAZARDS IDENTIFICATION

Hazard Classification	Not hazardous
Dangerous Goods Classification	Not Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
GHS Label Elements	
Signal Word	Not Applicable
Symbol(s)	Not Applicable
Hazard Statements	Not Applicable. No known significant effects or critical hazards.
Precautionary Statements	
Prevention	Not Applicable
Response	Not Applicable
Storage	Not Applicable
Disposal	Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS No	Proportion
A blend of severely solvent refined base oils with a proprietary performance additives at sufficiently low levels as to not require hazardous classification.	N/A	VHIGH > 60%

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4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Poison Information Centres (131126) in each State Capital City can provide additional assistance for scheduled poisons.

Ingestion	Do NOT induce vomiting. Seek immediate medical assistance.
Eye Contact	In case of eye contact, hold eyelids apart and flush the eye immediately with large amounts of running water. Continue flushing for at least 15 minutes or until advised to stop by a Doctor. Check for contact lenses. If there are contact lenses, these should be removed after several minutes of rinsing by the exposed person or medical personnel if it can be done easily. After flushing, if irritation persists seek medical advice/attention.
Skin Contact	If skin or hair contact has occurred remove any contaminated clothing and footwear, wash skin or hair with soap and water. If irritation or rash occurs seek medical advice/attention.
Inhaled	Remove the source of contamination and move the affected person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. If the victim is not breathing, apply artificial resuscitation and seek urgent medical attention. In serious cases of over-exposure, seek immediate medical attention.
First Aid Facilities	Eye wash station and safety showers are recommended in the area where the product is used.

Most Important Symptoms & Effects, Both Acute & Delayed, Caused by Exposure

See Section 11 for more detailed information on health effects and symptoms.

Advice to Doctor Treat symptomatically based on individual reactions of patient and judgment of doctor.

5. FIRE FIGHTING MEASURES

General Measures	Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
Suitable Extinguishing Media	Cooling by water mist or water fog. Extinguishing by foam, CO ₂ (carbon dioxide) or dry agent (dry chemical powder).
Unsuitable Extinguishing Media	Do not use water jet as an extinguisher, oil will float on water and this can spread the fire.
Special Hazards Arising from the Substance or Mixture	
Specific Hazards	This product will burn if exposed to fire.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritation fumes including carbon monoxide and carbon dioxide.
Advice for Firefighters	
Flammability Conditions	This product is non flammable under conditions of use. Product is classified as a Class 2 Combustible Liquid according to AS1940.

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Date:	September 2020	

Explosion	No information to indicate that the product is an explosion hazard. Extinguish all sources of flame or spark. Closed containers may explode when exposed to extreme heat.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) operated in positive pressure mode and full protective fire fighting clothing to prevent exposure to vapours or fumes.
Precautions in Connection with Fire	Water spray may be used to cool down heat exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Avoid accidents, clean up immediately. Slippery when spilled. Evacuate personnel to safe areas. Eliminate all sources of ignition if safe to do so. Avoid contact with eyes and skin. Increase ventilation. Use clean, non-sparking tools and equipment.
Containment	Stop the leak if safe to do so. Isolate the danger area. Contain the spill and absorb with a proprietary absorbent material, such as vermiculite, sand or dirt. Prevent contamination of groundwater or surface water. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
Clean Up Procedures	Having contained the spill, collect all material and place used absorbent in suitable, labelled, sealable containers for safe disposal. Wash contaminated area and objects with detergent and water after spill has been cleared. Rinse the cleaned area with water. Do not allow wash water to enter drains, surface water, sewers or water courses.
Environmental Precautionary Measures	Use appropriate containment to avoid environmental contamination. Do not let product enter drains, surface water, sewers or water courses. Advise local authorities if this occurs.
Personal Precautionary Measures	Wear personal protective equipment and clothing to prevent exposure. Wear gloves, glasses/goggles, boots and full length clothing. If mists of vapour are generated, an approved organic vapour/particulate respirator is required. Refer Section 8 for more detailed information on Personal Protection Equipment.
Disposal	Contaminated product should be placed in sealed, properly labelled containers for disposal. Dispose of waste according to Federal, EPA, State and Local Regulations. Assure conformity with all applicable regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapour mists. Use in a well ventilated area. Do not use near ignition sources. Keep containers closed when not in use. Repeated or prolonged exposure to the material without personal protection should be avoided in order to lessen the possibility of disorders. Maintain good standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using the toilet facilities.
Conditions for Safe Storage	This material is classified as a C2 Combustible Liquid for the purpose of storage and handling. Store in a cool, dry well ventilated area away from heat, sources of ignition, oxidising agents, foodstuffs and clothing and out of direct sunlight. Keep containers tightly closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Refer to Australian Standard AS1940 – The Storage and Handling of Flammable and Combustible Liquids.

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8. EXPOSURE CONTROL

Occupational Exposure Limits	No exposure standards have been established for this material, however, the TWA National Occupational Health and Safety Commission (NOHSC) exposure standards for oil mist is 5 mg/m ³ . As with all chemicals, exposure should be kept to the lowest possible levels. As published by the National Occupational Health and Safety Commission (NOHSC): TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.
Biological Limit	No biological limit allocated.
Engineering Controls	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 limit. Where no exposure standard is stated, keep as low as practicable.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.
Eye Protection	Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standards AS/NZS 1337 – Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1 – Occupational Protective Gloves – Selection, Use and Maintenance.
Body Protection	Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant plastic apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown oily liquid
Odour	Oily odour
Density	@ 15°C 0.878Kg/L
Flash Point	204°C (PMP)
Flammability	Combustible Liquid (C2)
Solubility	Insoluble
Reactivity	May react with oxidising agents
Kinematic	68.0mm ² /S @ 40°C

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Viscosity 5.4mm²/S @ 100°C

10. STABILITY AND REACTIVITY

Stability	Product is stable under normal conditions of storage and handling.
Conditions to Avoid	Avoid sources of ignition, heat, open flames or direct sunlight.
Incompatible Materials	Oxidising agents.
Hazardous Decomposition Products	Thermal decomposition and combustion may produce noxious fumes such as oxides of carbon.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data is available for this specific product.
Inhalation	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Ingestion	Harmful if swallowed in large doses. May cause nausea, mild gastric irritation.
Eye	A slight to moderate eye irritant.
Skin Contact	Adverse symptoms may include the following: Irritation Dryness Cracking
Chronic Effects	
Inhalation	Overexposure to the inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.
Skin	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Other Information	Used oils may contain harmful impurities that can accumulate during usage. Due to the use of oils in different types of equipment the type of impurities that accumulate during its usage are unknown. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. All used oil should be handled with caution and skin contact avoided as far as possible by wearing suitable gloves, such as those made of nitrile rubber.

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12. ECOLOGICAL INFORMATION

Ecotoxicity	No ecological data is available for this specific product.
Persistence / Degradability	Not available.
Mobility	Not available.
Bioaccumulative Potential	Not available.
Environmental Protection	Prevent this material from entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	The generation of waste should be avoided or minimised wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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14. TRANSPORT INFORMATION

Transport Information	Classified as Non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
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15. REGULATORY INFORMATION

SUSMP	A poison schedule has not been allocated for this product.
AICS (Australia)	All ingredients are listed in the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Contact Person/Point	Technical Information: (03) 9338 6655.
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Date of Preparation or last revision of SDS:	SDS reviewed: 3 September 2020
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Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
ADG Code	Australian Code for the Transport of Dangerous Goods by Road & Rail
AICS	Australian Inventory of Chemical Substances
CAS Number	Chemical Abstracts Service Registry Number
GHS	Globally Harmonised System of Classification and Labelling
HAZCHEM Code	Emergency action code of numbers and letters which gives information to emergency services
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
mg/m³	Milligrams per Cubic Metre
NOHSC	National Occupational Health and Safety Commission
ppm	Parts Per Million

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SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
TWA	Time Weighted Average

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled in the workplace and in conjunction with other materials. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Company accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, from any failure to adhere to recommendations. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

END OF SDS