



Product Name: HTQ HEAT TRANSFER AND QUENCHING OIL

Revision Date: 20th October 2010

Page 1 of 8

MATERIAL SAFETY DATA SHEET

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

Not classified as hazardous according to criteria of National Occupational Health and Safety Commission.

PRODUCT

Product Name: HTQ HEAT TRANSFER AND QUENCHING OIL
Product Description: Base Oil and Additive
Product Code: 1205
Intended Use: Metal Quenching and Heat Transfer Oil

COMPANY IDENTIFICATION

Supplier: Lidomont Pty Ltd ACN 010 867 428 trading as **PROLUBE**
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SECTION 2

HAZARDS IDENTIFICATION

Hazard Classification: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOOD.

Refer to Section 15, Regulatory Information, for hazard classification criteria.

POISON SCHEDULE NUMBER: None Allocated.

HEALTH HAZARDS

Low order of toxicity. Excessive exposure may result in eye, skin or respiratory irritation.

Note: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.



Product Name: HTQ HEAT TRANSFER AND QUENCHING OIL

Revision Date: 20th October 2010

Page 2 of 8

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Reportable Hazardous Substance(s) or Complex Substance(s)

Name	CAS#	Concentration*	Symbols/Risk Phrases
Solvent Refined Mineral Oil (Complex mixture of Paraffinic, Napthenic and Aromatic hydrocarbons)		> 60%	
Additives (Calcium, Phosphorous, Sulphur, Zinc, Nitrogen and Olefin copolymers)		To 100%	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Other ingredients determined not to be hazardous up to 100%.

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed



Product Name: HTQ HEAT TRANSFER AND QUENCHING OIL

Revision Date: 20th October 2010

Page 3 of 8

spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Oxides of carbon, Incomplete combustion products, Smoke, Fume.

FLAMMABILITY PROPERTIES

Flash Point [Method]: 220°C (429F) PMCC Typical

Autoignition Temperature: >320°C Typical

SECTION 6

ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7

HANDLING AND STORAGE

HANDLING

Keep containers closed. Avoid personal contact. Prevent small spills to avoid slip hazards.

STORAGE

Do not store in open or unlabelled containers. Store in original containers.

Store away from incompatible materials and foodstuff containers. Check regularly for leaks and physical damage.



Product Name: HTQ HEAT TRANSFER AND QUENCHING OIL

Revision Date: 20th October 2010

Page 4 of 8

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product:

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

Biological limits

No biological limits allocated.

ENGINEERING CONTROLS

Use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Particulate

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

Chemical resistant, Nitrile, Viton

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

Long sleeve and long pants will provide protection.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective



Product Name: HTQ HEAT TRANSFER AND QUENCHING OIL

Revision Date: 20th October 2010

Page 5 of 8

equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practise good housekeeping.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Liquid
Colour: Pale yellow, clear and bright
Odour: Mild oil
Odour Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 C): 0.86 – 0.92
Flash Point [Method]: > 220°C Non flammable [ASTM D-93]
Flammable Limits (Approximate volume % in air): LEL 1% Typical UEL 10% Typical
Autoignition Temperature: > 320°C
Boiling Point / Range: > 280 °C
Vapour Density (Air = 1): > 1
Vapour Pressure: < 0.0005 kPa @ 20°C
Evaporation Rate (N-Butyl Acetate = 1): N/A
pH: N/A
Solubility in Water: Negligible
Viscosity: approx 5.6 cSt at 100°C

SECTION 10

STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

INCOMPATIBLE MATERIALS: Strong oxidisers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS REACTIONS: Will not occur

SECTION 11

TOXICOLOGICAL INFORMATION

Acute Toxicity

Route of Exposure	Conclusion / Remarks
INHALATION	
Toxicity (Rat): LC50 > 5000 mg/m ³	Minimally Toxic, based on test data of similar materials



Product Name: HTQ HEAT TRANSFER AND QUENCHING OIL

Revision Date: 20th October 2010

Page 6 of 8

Irritation:	N/A
INGESTION	
Toxicity (Rat): LD50 > 2000 mg/kg	Minimally Toxic, based on test data of similar materials
Skin	
Toxicity (Rabbit): LD50 > 2000 mg/kg	Minimally Toxic, based on test data of similar materials
Irritation (Rabbit):	N/A.
Eye	
Irritation (Rabbit):	N/A

CHRONIC/OTHER EFFECTS

For the product itself:

Not expected to cause dermal sensitisation. Not carcinogenic in animal tests based on data from similar materials.

Contains:

Refined base oil

SECTION 12

ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Expected to be harmful to aquatic organisms.

MOBILITY

Low solubility and miscibility. Floats on water. Expected to migrate from water to land.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component: Expected to be inherently biodegradable.

Additive components: Show moderate biodegradation

BIOACCUMULATION POTENTIAL

Limited potential for bioaccumulation



Product Name: HTQ HEAT TRANSFER AND QUENCHING OIL

Revision Date: 20th October 2010

Page 7 of 8

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by incineration at very high temperatures.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14

TRANSPORT INFORMATION

LAND (ADG) : Not Regulated for Land Transport

SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA) : Not Regulated for Air Transport

SECTION 15

REGULATORY INFORMATION

Material is not hazardous as defined by the Approved Criteria for Classifying Hazardous Substances NOHSC:1008.

Product is not regulated according to Australian Dangerous Goods Code.

No Poison Schedule number allocated by the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) established under the Therapeutic Goods Act.

SECTION 16

OTHER INFORMATION

KEY TO ABBREVIATIONS AND ACRONYMS:

N/D = Not determined, N/A = Not applicable, STEL = Short-Term Exposure Limit, TWA = Time-Weighted Average

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

No revision information is available.

The information and recommendations contained herein are, to the best of Prolube's knowledge and belief, accurate and reliable as of the date issued. You can contact Prolube to insure that this document is the most current available from Prolube. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it



Product Name: HTQ HEAT TRANSFER AND QUENCHING OIL

Revision Date: 20th October 2010

Page 8 of 8

is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users.

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Contact Point: See Section 1 for Local Contact number

End of MSDS