

MATERIAL SAFETY DATA SHEET

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and Safety Data Sheet OSHA GHS.



TRENTON 5™ MULTIUSE AW ISO 22 HYDRAULIC OIL

SECTION 1

PRODUCT AND COMPANY INFORMATION

Product Name(s): TRENTON 5™ MULTIUSE AW ISO 22 HYDRAULIC OIL

Product Code(s): 1090-220

Application of the substance / the preparation: Lubricating Oils

Company: PETROCHEMICAL GROUP USA INC.

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SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Not applicable.

Information concerning particular hazards for human and environment:

The product does not have to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

Label elements:

- Labeling according to Regulation (EC) No 1272/2008 N/A
- Hazard pictograms N/A
- Signal word N/A
- Hazard statements N/A
- Hazard description:
- WHMIS-symbols: Not hazardous under W HMIS.
- HMIS Long Term Health Hazard Substances: None of the ingredients is listed.

SECTION 2 HAZARDS IDENTIFICATION

Other hazards:

Results of PBT and vPvB assessment:

PBT
Not applicable.

vPvB
Not applicable.

SECTION 3 COMPOSITION / INGREDIENTS

Dangerous components:		
CAS: 64742-54-7 EINECS: 265-157-1 Index number: 649-467-00-8	Distillates (petroleum), hydrotreated heavy paraffinic substance with a Community workplace exposure limit Carc. Cat. 2	99%

Additional information:

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This product meets these requirements. For the wording of the listed risk phrases refer to section 16.

SECTION 4 FIRST AID MEASURES

Description of first aid measures:

- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- **After eye contact:**
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

Most important symptoms and effects, both acute and delayed:

No further relevant information available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media:	<p>Suitable extinguishing agents: Water haze or fog Foam Fire-extinguishing powder. Carbon dioxide.</p> <p>For safety reasons unsuitable extinguishing agents: Water with full jet.</p>
Special hazards arising from the substance or mixture:	<p>Sulphur dioxide (SO₂) Nitrogen oxides (NO_x) Carbon monoxide (CO)</p>
Advice for firefighters:	<p>Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.</p>

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	<p>Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away.</p>
Environmental precautions:	<p>Do not allow product to reach sewage system or any water course. Prevent from spreading (e.g. by damming-in or oil barriers).</p>
Methods and material for containment and cleaning up:	<p>Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles. Do not flush with water or aqueous cleansing agents</p>
Reference to other sections:	<p>See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.</p>

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:	<p>Avoid the formation of oil haze.</p> <p>Information about fire - and explosion protection: No special measures required.</p>
Conditions for safe storage, including any incompatibilities:	<p>Storage: Requirements to be met by storerooms and receptacles: No special requirements.</p>

SECTION 7 HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities:

Information about storage in one common storage facility:

Store away from oxidizing agents.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s):

No further relevant information available.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

Control parameters:

Ingredients with limit values that require monitoring at the workplace:	
64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic	
PEL (USA)	5 mg/m ³
TLV (USA)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³

Additional information: The lists valid during the making were used as basis.

Exposure controls:

- **Personal protective equipment:**

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes.
- **Respiratory protection:**

Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**

Protective gloves
Oil resistant gloves
- **Material of gloves:** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Eye protection:**

Safety glasses
Goggles recommended during refilling.
- **Body protection:**

Protective work clothing



SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:	
Form:	Oily.
Colour:	Amber coloured.
Odour:	Characteristic.
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition:	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.
Flash point:	190°C (374°F)
Flammability (solid, gas):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20°C:	0,86 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	> 2,0 log POW (Estimate)
Viscosity	
Viscosity Index:	100
Kinematic at 40°C:	22 cSt (4,2 cSt @ 100°C)
Solvent content:	
Organic solvents:	0,0 %

Other information: No further relevant information available.

SECTION 10 STABILITY AND REACTIVITY

Reactivity:

Chemical stability:	Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Possibility of hazardous reactions:	Reacts with strong oxidising agents.
Conditions to avoid:	Store away from oxidizing agents.
Incompatible materials:	No further relevant information available.
Hazardous decomposition products:	Carbon monoxide and carbon dioxide Possible in traces. Nitrogen oxides Sulphur oxides (SOx)

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects:· **Acute toxicity:****LD/LC50 values relevant for classification:**

Oral LD50 >2000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rabbit)

· **Primary irritant effect****On the skin:**

Slight irritant effect on skin and mucous membranes.

On the eye:

Slight irritant effect on eyes.

Sensitization:

Sensitizing effect by skin contact is possible by prolonged exposure.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity**Aquatic toxicity:**

The material is harmful to the environment.

Persistence and degradability:

Not easily biodegradable

SECTION 12 ECOLOGICAL INFORMATION

Bioaccumulative potential:
May be accumulated in organism

Mobility in soil:
No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Danger to drinking water if even small quantities leak into the ground.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects:

No further relevant information available.

SECTION 13 DISPOSAL CONSIDERATION

Waste treatment methods:

· **Recommendation**

Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

Can be reused after reprocessing.

Delivery of waste oil to officially authorized collectors only.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14 TRANSPORT INFORMATION

UN-Number

DOT, ADR, IMDG, IATA	N/A
UN proper shipping name DOT, ADR, IMDG, IATA	N/A
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	N/A
Packing group DOT, ADR, IMDG, IATA	N/A
Environmental hazards: Marine pollutant:	No.

SECTION 14 TRANSPORT INFORMATION

UN-Number

Special precautions for user	Not applicable.
Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
UN "Model Regulation":	-

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

United States (USA)
SARA

Section 355 (extremely hazardous substances): None of the ingredients are listed.
Section 313 (Specific toxic chemical listings): None of the ingredients are listed.
TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.
Chemicals known to cause developmental toxicity: None of the ingredients is listed.

Carcinogenic Categories:

EPA (Environmental Protection Agency) None of the ingredients is listed.
IARC (International Agency for Research on Cancer) None of the ingredients is listed.
TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed.

SECTION 15 REGULATORY INFORMATION

MAK (German Maximum Workplace Concentration) None of the ingredients is listed.
NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.

Canada

Canadian Domestic Substances List (DSL) All ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%) None of the ingredients are listed.
Canadian Ingredient Disclosure list (limit 1%) None of the ingredients is listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16 OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists EINECS:

European Inventory of Existing Commercial Chemical Substances CAS:

Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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This document was authored and reviewed by the technical and scientific staff at ChemTel Inc.

Descriptions, classifications and calculations are based upon data provided by manufacturer and augmented by published data in conjunction with expert analysis by degreed scientists.

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