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SECTION 1 - IDENTIFICATION

GHS Product Identifier: DUOSEAL PUMP OIL

Synonyms: 1407K DUOSEAL Vacuum Pump Oil

Highly-Refined Petroleum Lubricant Oil

Supplier's Details: Welch Vacuum, Gardner Denver Thomas, Inc.

5621 West Howard Street

Niles, IL 60714

Phone: (847) 676-8800

gdwelchvacuum@gardnerdenver.com

Telephone Number: Technical Contact: (847) 676-8800

SECTION 2 – HAZARDS IDENTIFICATION

OSHA/HCS status: While this material is not considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and

other users of this product.

Classification of the

Substance or mixture:

Not classified.

GHS label elements

Signal word: No signal word.

Hazard statements: No known significant effects or critical hazards.

Precautionary statements

General: Avoid contact with eyes, skin and clothing. MAY BE HARMFUL IF

SWALLOWED. IF IN EYES: Rinse cautiously with water for several minutes. Do NOT induce vomiting. After handling, always wash hands thoroughly with soap and water. If you feel unwell, seek medical attention

and show the label when possible. Keep out of reach of children.

Prevention: Not applicable.

Response: Not applicable.

Storage: Store in a dry place and/or in closed container. Store in accordance with

all local, regional, national and international regulations.

Disposal: Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazards not otherwise

classified: None known.

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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Other means of

Identification: Lubricating oil

CAS number/other identifiers

CAS number: Not available

Ingredient name	%	CAS number
Distillates (petroleum), hydro treated heavy paraffinic	100	64742-54-7

^{* =} Various ** = Mixture *** = Proprietary

Any concentration shown as a range is to protect confidentiality or is due to process variation. **Occupational exposure limits, if available, are listed in Section 8.**

SECTION 4 - FIRST AID MEASURES

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Get medical attention if

irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Do not induce vomiting unless directed to do

so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute

Potential acute health effects

Eye contact:
Inhalation:
Skin contact:
Ingestion:

No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact:No specific data.Inhalation:No specific data.Skin contact:No specific data.Ingestion:No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if

large quantities have been ingested or inhaled.

Specific treatments: Treat symptomatically and supportively.

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SECTION 4 - FIRST AID MEASURES CONTINUED

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable

training.

See toxicological information (Section 11)

SECTION 5 - FIRE FIGHTING MEASURES

Specific hazards arising

from the chemical: In a fire or if heated, a pressure increase will occur and the container

may burst.

Extinguishing media

Suitable extinguishing

Media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

Media: None known.

Hazardous thermal

decomposition products: No specific data.

Special protective actions

for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of

the incident if there is a fire. No action shall be taken involving any

personal risk or without suitable training.

Special protective

equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-

contained breathing apparatus (SCBA) with a full face-piece operated in

positive pressure mode.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency

Personnel: No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from

entering. Do not touch or walk through spilled material. Put on appropriate

personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of

any information in Section 8 on suitable and unsuitable materials. See

also the information in "For nonemergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or

air).

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SECTION 6 - ACCIDENTAL RELEASE MEASURES CONTINUED

Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and

mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via

a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into

sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with

non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local

regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste

disposal.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 8 for additional information on hygiene measures.

Conditions for safe storage, Including any incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.

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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydro treated heavy	ACGIH TLV (United States, 6/2013).
paraffinic	TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
	ACGIH (United States).
	TWA: 5 mg/m ³ 8 hours.
	STEL: 10 mg/m³ 15 minutes.
	OSHA (United States).
	TWA: 5 mg/m ³ 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 5 mg/m ³ 8 hours.

Appropriate engineering

controls:

Good general ventilation should be sufficient to control worker exposure

to airborne contaminants.

Environmental exposure Controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, vapor controls, filters or engineering modifications to the process equipment will be necessary to

reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical

products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to

the workstation location.

Eye/face protection: Safety glasses equipped with side shields are recommended as

minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If inhalation hazards exist, a full-face respirator may be

required instead.

Skin protection

Hand protection: Chemical-resistant gloves complying with an approved standard should

be worn at all times when handling chemical products if a risk

assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on

the task being performed and the risks involved and should be approved

by a specialist before handling this product.

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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION CONTINUED

Other skin protection: Appropriate footwear and any additional skin protection measures should

be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or supplied-air respirator complying

with an approved standard if a risk assessment indicates this is

necessary. Respirator selection must be based on known or anticipated

exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.
Color: Light amber

Odor: Mild petroleum odor
Ph: Not available.
Boiling point: Not available.

Flash point: Open cup: 244°C (471.2°F) [Cleveland.]

Lower and upper explosive

(flammable) limits: Not available

Vapor pressure: <0.0013 kPa (<0.01 mm Hg) [room temperature]

Vapor density: Not available.

Relative density: 0.88

Density lbs/gal: 7.2 lbs/gal

Gravity, °API: 32.3

Viscosity: Kinematic (40°C (104°F)): 0.68 cm₂/s (68 cSt)

Viscosity SUS: 340 SUS @100 F

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic

Peroxide under US GHS Definition(s).

Chemical stability: The product is stable.

Possibility of hazardous

Reactions: Under normal conditions of storage and use, hazardous reactions will not

occur.

Conditions to avoid: No specific data.

Incompatible materials: No specific data.

Hazardous decomposition

Products: Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

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SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum),	LD50 Oral	Rat	>5000 mg/kg	-
Hydro treated heavy paraffinic				

Conclusion/Summary: Distillates (petroleum), hydrotreated heavy paraffinic: Mineral oil

mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no

significant toxicological effects.

Irritation/Corrosion

Skin:No additional information.Eyes:No additional information.Respiratory:No additional information.

Sensitization

Skin: No additional information. Respiratory: No additional information.

Mutagenicity

Conclusion/Summary: No additional information.

Carcinogenicity

Conclusion/Summary: No additional information.

Reproductive toxicity

Conclusion/Summary: No additional information.

Teratogenicity

Conclusion/Summary: No additional information.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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SECTION 11 - TOXICOLOGICAL INFORMATION CONTINUED

Information on the likely

routes of exposure: Not available.

Potential acute health effects

Eye contact:No known significant effects or critical hazards.Inhalation:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:No specific data.Inhalation:No specific data.Skin contact:No specific data.Ingestion:No specific data.

Potential chronic health effects

General:

Carcinogenicity:

No known significant effects or critical hazards.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity

Conclusion/Summary: Not available

Persistence and degradability

Conclusion/Summary: Not available

Bio accumulative potential

Not available

Mobility in soil
Soil/water partition

coefficient (Koc): Not available

Other adverse effects: No known significant effects or critical hazards.

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SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal methods:

The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14 – TRANSPORT INFORMATION

	DOT Classification	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated
UN proper shipping name	-	<u>-</u>	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No	No	No
Additional information	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed

containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an

accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not available.

SECTION 15 – REGULATORY INFORMATION

U.S. Federal regulations: United States inventory (TSCA 8b): All components are listed or

exempted.

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

SARA 302/304

Composition/information on ingredients

SARA 304 RQ: Not applicable.

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SECTION 15 – REGULATORY INFORMATION CONTINUED

SARA 311/312

Classification: Not applicable.

Composition/information on ingredients

State regulations

Massachusetts:None of the components are listed.New York:None of the components are listed.New Jersey:None of the components are listed.Pennsylvania:None of the components are listed.

International regulations

International lists: Australia inventory (AICS): All components are listed or

exempted.

China inventory (IECSC): All components are listed or

exempted.

Japan inventory: All components are listed or exempted.

Korea inventory: All components are listed or exempted.

Malaysia Inventory (EHS Register): All components are listed

or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components

are listed or exempted.

Philippines inventory (PICCS): All components are listed or

exempted.

Taiwan inventory (CSNN): Not determined.

Canada inventory:

EU Inventory:

WHMIS (Canada):

All components are listed or exempted.

All components are listed or exempted.

Not controlled under WHMIS (Canada).

SECTION 16 – OTHER INFORMATION

National Fire Protection Association (U.S.A.)



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SECTION 16 - OTHER INFORMATION CONTINUED

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in

NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA

or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of issue/Date of

Revision: 12/8/2014.

Key to abbreviations: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution

From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" =

marine pollution)
UN = United Nations

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