DEKKER VACUUM TECHNOLOGIES, INC.

Prepared according to 29CFR 1910.1200.

1 Chemical Product and Company Identification

Dekker Vacuum Technologies, Inc.
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Product Trade Name VMAXOL 22CS SPEC - (55 Gal) 5220-0550-005
CAS Number Not applicable for mixtures.
Synonyms None.
Generic Chemical Name Mixture.
Product Type Multipurpose.

2 Hazards Identification

Hazard Classification
Health Hazards Not Classified

Label Elements:
Hazard Symbol: No symbol

Signal Word: No signal word

Hazard Statement: Not applicable

Precautionary Statement: Not applicable

Other hazards which do not result in GHS classification: None identified.

See Section 11 for complete health hazard information.

3 Composition/Information on Ingredients

General information:

Chemical name	CAS number	Percent by Weight
Mineral Oil	8042-47-5	40-50%
Mineral Oil	72623-86-0	40-50%

4 First Aid Measures

Ingestion: Treat symptomatically. Get medical attention.
Inhalation: Remove exposed person to fresh air if adverse effects are observed.
Skin Contact: Wash with soap and water. If skin irritation occurs, get medical attention.
Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses.

Most important symptoms/effects, acute and delayed
Symptoms: See section 11.

Indication of immediate medical attention and special treatment needed
Treatment: Treat symptomatically.

5 Fire Fighting Measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media
Suitable extinguishing media: CO_2, dry chemical or foam. Water can be used to cool and protect exposed material
Unsuitable extinguishing media: So not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

Special protective equipment and precautions for firefighters
Special fire fighting procedures: No data available.
Special protective equipment for fire-fighters: Recommend wearing self-contained breathing apparatus.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations.

Methods and material for containment and cleaning up:

Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

Environmental Precautions:

Avoid release to the environment. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so.

7 Handling and Storage

Precautions for safe handling: Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Use grounding and bonding connection when transferring material. In case of spills, beware of slippery floors and surfaces.

Maximum Handling Temperature: Not determined.

Conditions for safe storage, including Any incompatibilities: Store away from incompatible materials. See section 10 for incompatible materials.

Maximum Storage Temperature: Not determined.

8 Exposure Controls/Personal Protection

Control Parameters:

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (02 2012)
Mineral oil - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)

Appropriate engineering controls: No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required

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Eye/face protection: If contact is likely, safety glasses with side shields are recommended.

Skin Protection

Hand Protection: Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water. Gloves should always be inspected before each use and discarded if they show tears, pinholes, or signs of wear.

Other: No data available.

Respiratory Protection: Use disposable dust/mist mask if the recommended exposure limit is exceeded. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9 Physical and Chemical Properties

Appearance

Physical state: liquid
Form: liquid
Color: Colorless to yellow
Odor: Mild
Odor threshold: No data available.
pH: No data available.
Freezing point: No data available.
Boiling Point: No data available.
Flash Point: > 440.1 °F (226.7 °C) (Cleveland Open Cup)

Evaporation rate: No data available.
Flammability (solid, gas): No data available.
Upper/lower limit on flammability or explosive limits
Flammability limit - upper (%): No data available.
Flammability limit - lower (%): No data available.
Explosive limit - upper (%): No data available.
Explosive limit - lower (%): No data available.
Vapor pressure: No data available.
Vapor density: No data available.
Relative density: 0.84 68 °F (20 °C)
Solubility(ies)
Solubility in water: Insoluble in water
Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: 21.5 mm2/s (104 °F (40 °C)) 4.3 mm2/s (100 °C (212 °F))

Other information
Bulk density: 7.01 lb/gal 77 °F (25 °C)

	Stability and Reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: Do not expose to excessive heat, ignition sources or oxidizing materials.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion

11	**Toxicological Information**

Information on likely routes of exposure
Inhalation: No data available.
Ingestion: No data available.
Skin Contact: No data available.
Eye contact: No data available.

Information on toxicological effects
Acute toxicity
Oral
Product: Not classified for acute toxicity based on available data. Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

Dermal
Product: Not classified for acute toxicity based on available data.

Inhalation
Product: Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:
Product: Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.

Serious Eye Damage/Eye Irritation:
Product: Remarks: Not classified as a primary eye irritant.

Respiratory sensitization: No data available

Skin sensitization:
Mineral Oil: Not a skin sensitizer

Specific Target Organ Toxicity - Single Exposure:
Mineral Oil: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

Aspiration Hazard:
Mineral Oil: Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

Chronic Effects

Carcinogenicity:

Product: This product contains mineral oils which are severely refined and not considered carcinogenic. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

Mineral Oil: All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. This product contains mineral oils which are severely refined and not considered carcinogenic.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
No carcinogenic components identified

Germ Cell Mutagenicity:
No data available

Reproductive toxicity:
No data available

Specific Target Organ Toxicity - Repeated Exposure:
No data available

12	Ecological Information

Ecotoxicity

Fish

Mineral Oil: LC 50 (Not reported, 96 h): > 10,000 mg/l
NOEC (Not reported, 96 h): > 10,000 mg/l

Aquatic Invertebrates

Mineral Oil: EC 50 (Water flea (Daphnia magna), 2 d): > 100 mg/l
NOEC (Water flea (Daphnia magna), 2 d): >= 100 mg/l
EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l
NOEC (Water flea (Daphnia magna), 21 d): 10 mg/l

Toxicity to Aquatic Plants

Mineral Oil: LC 50 (Algae (Pseudokirchneriella subcapitata), 3 d): > 100 mg/l
NOEC (Algae (Pseudokirchneriella subcapitata), 3 d): > 100 mg/l

Toxicity to soil dwelling organisms No data available

Sediment Toxicity No data available

Toxicity to Terrestrial Plants No data available

Toxicity to Above-Ground Organisms No data available

Toxicity to microorganisms No data available

Persistence and Degradability

Biodegradation

Mineral Oil: OECD TG 301 F, 31.13 %, 28 d, Not readily degradable.

Bioaccumulative Potential

Bioconcentration Factor (BCF) No data available

Partition Coefficient n-octanol / water (log Kow)
No data available

Mobility: No data available

Other Adverse Effects: No data available.

13	Disposal Considerations

Disposal instructions: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Contaminated Packaging: Container packaging may exhibit hazards.

14 Transport Information

DOT Not regulated.

IMDG Not regulated.

IATA Not regulated.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
None known.

Review classification requirements before shipping materials at elevated temperatures.

15 Regulatory Information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories None known.

SARA 302 Extremely Hazardous Substance
SARA 304 Emergency Release Notification
SARA 311/312 Hazardous Chemical
SARA 313 (TRI Reporting) This product may contain chemical(s) regulated under the Superfund Amendments and Reauthorization Act (SARA).

US State Regulations

US. California Proposition 65 No ingredient regulated by CA Prop 65 present.

Inventory Status

Australia (AICS)	All components are in compliance with chemical notification requirements in Australia.
Canada (DSL/NDSL)	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
China (IECSC)	All components of this product are listed on the Inventory of Existing Chemical Substances in China.
Japan (ENCS)	All components are in compliance with the Chemical Substances Control Law of Japan.
Korea (ECL)	All components are in compliance in Korea.
New Zealand (NZIoC)	All components are in compliance with chemical notification requirements in New Zealand.
Philippines (PICCS)	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
Switzerland (SWISS)	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
Taiwan (TCSCA)	All components of this product are listed on the Taiwan inventory.
United States (TSCA)	All components of this material are on the US TSCA Inventory.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

16 Other Information

US NFPA Codes

Health	Fire	Reactivity	Special
0	1	0	N/E

(N/E) - None established

HMIS Codes

Health	Fire	Reactivity
1	1	0

Revision Indicators All: Reformat to SDS Requirements 24 November 2015

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