MATERIAL SAFETY DATA SHEET

Date Prepared: 10-27-10

Valley Dynamo Silicone

1. CHEMICAL PRODUCT AND COMPANY DESCRIPTION

Dhaliwal Labs, LLC
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PRODUCT INFORMATION: 214.446.5862

Chemical Name or Synonym:
POLYDIMETHYLSILOXANE FLUID

Molecular Formula:
$(C_2H_6Osi)_n$

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	OSHA Hazard	Component Name	Percentage
63148-62-9	None	POLY(DIMETHYL)SILOXANE	100

3. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW:

Physical Appearance and Odor: Clear viscous liquid, odorless.

Warning Statements:
This product, as sold, does not meet the regulatory definition of a hazardous material. This product contains dimethylpolysiloxane which can generate formaldehyde as a byproduct of oxidative thermal decomposition beginning at approximately 160°C (300°F). Exposure to formaldehyde can cause adverse effects such as skin and respiratory sensitization and eye and throat irritation. Formaldehyde is a potential cancer hazard. Evaluate and control exposure to formaldehyde when warranted by conditions of use.

B. POTENTIAL HEALTH EFFECTS:

Acute Eye: Non-irritating. May cause foreign body irritation only.

Acute Skin: Non-irritating. Low acute dermal toxicity.

Acute Inhalation: Inhalation not likely.

Acute Ingestion: Low acute oral toxicity.

Chronic Effects:
This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

4. FIRST AID MEASURES

FIRST AID MEASURES:
Eye Exposure:
In case of contact, immediately absorb excess with clean absorbent cloth or cotton. Then, hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

Skin Exposure:
Immediately wipe excess material off skin with a dry cloth; then wash skin with plenty of soap and water. Seek medical attention if irritation develops or persists.

Inhalation:
Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs, remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Ingestion:
If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:
No specific information found.

NOTES TO PHYSICIAN:
All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

5. FIRE FIGHTING MEASURES

Flash Point: >315°C (599°F). Flammability Class: WILL BURN.
Method Used: Tagliabue Closed Cup
Flammability Limits (vol/vol%): Lower: No data Upper: No data
Extinguishing Media: Recommended: Dry chemical, Foam, Carbon dioxide
Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Cool Containers exposed to fire with water.
Unusual Fire and Explosion Hazards: Product will burn under fire conditions.
Hazardous Decomposition Materials (Under Fire Conditions): Formaldehyde, Oxides of carbon, Silica (crystalline)

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety:
Wear appropriate protective gear for the situation. See Personal Protection information in Section 8. CAUTION: Spilled material may make the floor slippery. Do not leave traces of product on floors, ladders, etc., as this may present a slipping hazard.
Containment of Spill: Follow procedure described below under Cleanup and Disposal of Spill.
Cleanup and Disposal of Spill: Absorb with an inert absorbent. Scrape up and place in appropriate closed container (See Section 7: Handling and Storage). Clean up residual material with an appropriate solvent like paint thinner or mineral spirits, provided that there is good ventilation and no sources of ignition.
Environmental and Regulatory Reporting: Do not flush to drain.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: 5° to 25° C (41° to 77° F)

Handling: Avoid direct or prolonged contact with skin and eyes.

Storage: Store in tightly closed containers. Recommended container material: Epoxy-coated steel, ordinary steel, polyethylene. Store in an area that is dry, well ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory Remarks:
These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

eck exposure limit guidelines for formaldehyde, a byproduct of oxidative thermal decomposition of dimethylsiloxane, if this product is handled above 150°C (300°F).

Exposure Guidelines: No exposure limits were found for this product or any of its ingredients.

Engineering Controls:
Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

Respiratory Protection:
When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

For reasonable foreseeable industrial end uses of this material, respiratory protection should not be necessary.

Eye/Face Protection: Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Skin Protection: Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

Work Practice Controls: Personal hygiene is an important work practice exposure control measure and the following measures should be taken when working with or handling this material:

1. Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in area where this material is stored.
2. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
3. Wash exposed skin promptly to remove accidental splashes of contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties here represent typical properties of this product. Contact the product Information phone number in Section 1 for its exact specifications.

Physical Appearance: Clear viscous liquid.

Odor: Odorless
pH: Not applicable
Specific Gravity: 0.970 at 25°C (77° F)
Water Solubility: Insoluble
Melting Point Range: Not available
Freezing Point Range: < -50°C (-58°F)
Boiling Point Range: Not available
Vapor Pressure: < 0.01 mmHg at 200°C (392°F)

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal handling and storage conditions described in Section 7.
Conditions To Be Avoided: Heat, Open flame, Sparks
Materials/Chemicals To Be Avoided: Strong bases, Strong acids, Strong oxidizing agents
The following hazardous decomposition products might be expected:
Decomposition Type: Thermal: Dimethylcyclosiloxanes and Methylphenylcyclosiloxanes
Decomposition Type: Oxidative/Thermal: Formaldehyde
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: The following data is for similar or related products.

Toxicological Information and Interpretation
Eye – eye irritation, rabbit
Non-irritating. Data for a similar product with a lower viscosity

Acute Skin Irritation:
The following data is for similar or related products.
Toxicological Information and Interpretation
Skin – skin irritation, rabbit.
Non-irritating. Data for a similar product with a lower viscosity.

Acute Dermal Toxicity:
The following data is for similar or related products.
Toxicological Information and Interpretation
LD50 – lethal dose 50% of test species, > 5000 mg/kg, rat
No deaths were observed. Data for a similar product with a lower viscosity.

Acute Respiratory Irritation: No test data found for product
Acute Inhalation Toxicity: No test data found for product.
Acute Oral Toxicity:
The following data is for similar or related products.
Toxicological Information and Interpretation
LD50-lethal dose 50% of test species, > 5000 mg/kg, rat.
No deaths were observed. Data for a similar product with a lower viscosity.

11. TOXICOLOGICAL INFORMATION (Continued)

Chronic Toxicity:

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probably" or "suspected" human carcinogens.

Under certain conditions, this product may generate formaldehyde as a byproduct of oxidative thermal decomposition. Formaldehyde is listed as a potential human carcinogen by IARC, OSHA and ACGIH.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data found for product.

Chemical Fate Information: No data found for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:
Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Handling and Disposal: Any containers or equipment used should be decontaminated immediately after use.

EPA Hazardous Waste - No

14. TRANSPORTATION INFORMATION

Transportation Status:
The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation

Shipping Name: Not regulated

15. REGULATORY INFORMATION

Inventory	Status
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPEAN UNION (EINECS)	P
AUSTRALIA (AICS)	Y
JAPAN (MITI)	Y
SOUTH KOREA (KECL)	Y

Y = All ingredients are on the inventory.
E = All ingredients are on the inventory or exempt from listing.
P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.
N = One or more ingredients are not on the inventory and are not exempt from listing.

15. REGULATORY INFORMATION (Continued)

FEDERAL REGULATIONS

Inventory Issues: All functional components of this product are listed on the TSCA Inventory.

SARA Title III Hazard Classes:

Fire Hazard	- NO
Reactive Hazard	- NO
Release of Pressure	- NO
Acute Health Hazard	- NO
Chronic Health Hazard	- NO

STATE REGULATIONS: This product does not contain any components that are regulated under California Proposition 65.

16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings—NFPA (R):

1 Health Hazard Rating	- Minimal
0 Flammability Rating	- Slight
0 Reactivity Rating	- Minimal

National Paint & Coating Hazardous Materials Identification System – HMIS (R):

1 Health Hazard Rating	- Minimal
0 Flammability Rating	- Slight
0 Reactivity Rating	- Minimal

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Key Legend Information:

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer