Alpha Chemika
ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION
MATERIAL SAFETY DATA SHEET
MSDS
Savgan Heights ; 102 ,B Wing ; R.T.O. Lane ,Andheri (West) Mumbai - 400053 , INDIA

Section 1 - Chemical Product and Company Identification

Product Name : SILICONE GREASE

Synonyms: Dow Corning high vacuum grease
CAS No.: ---
Molecular Weight: Not Applicable
Chemical Formula: Not Applicable

Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Silica (amorphous)	7631-86-9	7-13%	**No**
Polydimethylsiloxane	63148-62-9	>60%	**No**
Dimethyl siloxane	70131-67-8	7-13%	**No**

Section 3 - Hazardous Identification

EMERGENCY OVERVIEW

This material when properly handled according to good working and hygienic practices is not dangerous to human health and the environment.
For short and long term exposure effects see Section 11 Toxicological data.
Eye Effects: Direct eye contact may cause temporary discomfort with mild redness.
Skin Effects: No significant irritation expected from a single short term exposure.
Ingestion/Oral
Effects:
Small amounts transferred to the mouth by the fingers during use should not injure.
Swallowing large amounts may cause digestive discomfort.
Inhalation Effects: Extremely low volatility makes inhalation an unlikely hazard in normal use at room temperature.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.
NFPA Hazard codes HMIS Hazard codes Rating System
Health 1 Health 1 0 = No Hazard
Flammability 1 Flammability 1 1 = Slight hazard
Instability 0 Reactivity 0 2 = Moderate Hazard
3 = Serious Hazard
4 = Severe hazard

Section 4 - First Aid Measures

Eyes: Immediately flush with water. **Skin:** No first aid should be needed. **Ingestion/Oral:** No first aid should be needed.
Inhalation: No first aid should be needed. If high concentrations of mists or fumes are inhaled, remove to fresh air. If breathing problems occur, a qualified individual should administer oxygen or artificial respiration as indicated. Seek immediate medical attention.
Other Information: Treat symptomatically.

Section 5 - Fire Fighting Measures

Extinguishing Media: Carbon dioxide, dry powder, foam, fine water spray.
Fire and Explosion Hazard: No known unusual hazards. Hazardous decomposition products: silicon dioxide (silica), carbon monoxide, carbon dioxide and traces of incompletely burned carbon products. The product may emit formaldehyde vapours at temperatures above150°C/302°F in the presence of air. Direct water stream may cause violent frothing.
Special Protective Equipment for Fire Fighters:
In confined spaces or for large fires, fire fighters should wear a self-contained breathing apparatus (SCBA) which meets appropriate standards operated in positive pressure mode, and full turnout gear.
For Flammability Properties - see Section 9

Section 6 - Accidental Release Measures

Spillage: Use personal protection equipment recommended in Section 8. Prevent material from spreading. Clean up spilt material with a suitable absorbent and dispose of appropriately with regard to laws and regulations relating to material release and disposal. Clean area since silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents.

Section 7 - Handling and Storage

Handling: General ventilation is required. Avoid eye contact.
Storage: No special measures required. Store away from oxidising materials.

Section 8 - Exposure Controls, Personal Protection

Exposure Limits
Ingredient ACGIH - TLV - OSHA - PEL Occupational Exposure Limits
EH40 (UK)
Silica1 10mg/m3 (total dust) TWA2
3mg/m3 (inhalable dust)1
15mg/m3 (total dust) TWA
5mg/m3 (respirable dust)
6mg/m3 (total dust) TWA
3mg/m3 (respirable dust)
1 Free silica dust is only likely to be present as a result of thermal destruction of the grease.
2 Value for particulate matter containing no asbestos and < 1% crystalline silica.

Personal Protection:
Engineering Measures: General ventilation is recommended.
Respiratory Protection: None required.
Hand/Skin Protection: No special protection required.
Eye/Face Protection: Wear safety glasses.
Hygiene Measures: Practice good workplace hygiene. Do not eat or smoke when handling. Wash hands after handling and before eating.
Other/General Protection: None.

Section 9 - Physical and Chemical Properties

Appearance and Odour Translucent white grease.
Odourless.
Boiling Point >150/302 0C/ 0F
pH (as supplied) No data available Freezing Point No data available 0C/ 0F
Solubility in Water <0.1% Auto Ignition No data available 0C/ 0F
Volatile Content by Volume <5% Flash Point 100/212 0C/ 0F
Specific Gravity 1.10 @ 25oC/77 oF
Vapour Pressure (mbar) < 10-6 @ 20oC Vapour Pressure (Torr) < 10-6 @ 68oF

Section 10 - Stability and Reactivity

Stability: Stable.
Material/Conditions to Avoid: Avoid strong oxidising agents.
Hazardous Decomposition: Silicon dioxide (silica), carbon monoxide, carbon dioxide and traces of incompletely burned carbon products. The product may emit formaldehyde vapours at temperatures above 150oC/302oF in the presence of air.

Section 11 - Toxicological Information

For a comprehensive description for the various toxicological (health) effects which may arise if the user comes into contact with the substance or preparation refer to Section 3 Hazards Identification.
Animal Data:
LD50 value: No data available
LC50 value: No data available
Carcinogenicity, etc:
No known carcinogenic, teratogenic or mutagenic hazards. Contains no known reproductive toxins.

Section 12 - Ecological Information

Persistence, bioaccumulation in water and atmospheric pollution effects are all unknown. There are no known ecotoxicity effects in water.
Degradability: the material degrades in the environment by chemical and physical processes.
Mobility: the material is insoluble in water.
The material contains no ozone depleting chemicals.

Section 13 - Disposal Considerations

The product can be incinerated in accordance with local and national regulations. The packaging should be disposed of in accordance with regional and/or national regulations.

Section 14 - Transport Information

This product is not classified as dangerous under transport regulations.
PARAMETER EUROPEAN CANADIAN TDG UNITED STATES DOT
Proper Shipping Name Not applicable Not applicable Not applicable
Hazard Class Not applicable Not applicable Not applicable
Identification Number Not applicable Not applicable Not applicable
Shipping Label Not applicable Not applicable Not applicable

Section 15 - Regulatory Information

European Regulatory Information
This product has been classified in accordance with the Dangerous Substances Directive (67/548/EEC, as amended) and the Preparations Directive (88/379/EEC, as amended), implemented in the UK as the Chemical (Hazard Information and Packing) Regulations 1994 (CHIP, as amended).
Classified as dangerous to supply : No
Risk Phrases : Not applicable
Safety Phrases : Not applicable
Symbols : None
United States Regulatory Information
All materials contained in this product are on the U.S. Toxic Substances Control Act (TSCA).
California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer or reproductive harm.
EPA SARA Title III chemical listings:
Section 302 Extremely Dangerous Substances: none.
Section 304 CERCLA Hazardous Substances: none.
Section 312Hazard Class:
Acute: no,
Chronic: no,
Fire: no,
Pressure: no,
Reactive: no.
Section 313 Toxic Chemicals: None present or none present in regulated quantities.

Section 16 - Additional Information

Not Regulated