Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
PERMATEX DIELECTRIC TUNE-UP GREASE 3OZ

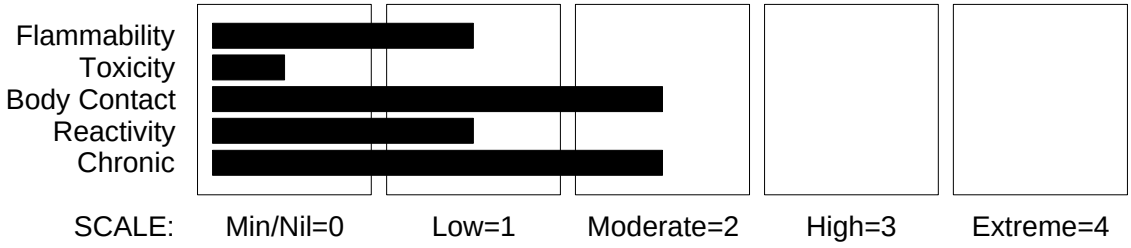
SYNONYMS

"Product Code: 22058"

PRODUCT USE
Lubricant

SUPPLIER
Company: Australian Timken
Address:
5 Daveyduke Road
Ballarat
VIC, 3350
AUS
Telephone: +61 3 5320 2700
Fax: +61 3 5338 1186

HAZARD RATINGS



Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE
NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

POISONS SCHEDULE
None

RISK
None under normal operating conditions.

SAFETY

Safety Codes	Safety Phrases
S24	Avoid contact with skin.
S39	Wear eye/face protection.
S26	In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
polydimethylsiloxane	63148-62-9	85-95
silica amorphous, fumed, crystalline free	112945-52-5	5-15

continued...

Section 4 - FIRST AID MEASURES

SWALLOWED

· Immediately give a glass of water.
· First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

EYE

If this product comes in contact with the eyes:
· Wash out immediately with fresh running water.
· Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

SKIN

If skin contact occurs:
· Immediately remove all contaminated clothing, including footwear
· Flush skin and hair with running water (and soap if available).

INHALED

· If fumes or combustion products are inhaled remove from contaminated area.
· Other measures are usually unnecessary.

NOTES TO PHYSICIAN

Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

· Foam.
· Dry chemical powder.
· BCF (where regulations permit).
· Carbon dioxide.
· Water spray or fog - Large fires only.

FIRE FIGHTING

· Alert Fire Brigade and tell them location and nature of hazard.
· Wear breathing apparatus plus protective gloves.
· Prevent, by any means available, spillage from entering drains or water courses.
· Use water delivered as a fine spray to control fire and cool adjacent area.
· DO NOT approach containers suspected to be hot.
· Cool fire exposed containers with water spray from a protected location.
· If safe to do so, remove containers from path of fire.
· Equipment should be thoroughly decontaminated after use.

FIRE/EXPLOSION HAZARD

· Combustible.
· Slight fire hazard when exposed to heat or flame.
· Heating may cause expansion or decomposition leading to violent rupture of containers.
· On combustion, may emit toxic fumes of carbon monoxide (CO).
· May emit acrid smoke.
· Mists containing combustible materials may be explosive.
Combustion products include: carbon dioxide (CO_2), hydrogen fluoride, other pyrolysis products typical of burning organic material.

FIRE INCOMPATIBILITY

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

HAZCHEM: None

Personal Protective Equipment

Gloves, boots (chemical resistant).

continued...

Section 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

MINOR SPILLS
Slippery when spilt.
- Clean up all spills immediately.
- Avoid contact with skin and eyes.
- Wear impervious gloves and safety goggles.
- Trowel up/scrape up.
- Place spilled material in clean, dry, sealed container.
- Flush spill area with water.
- Clean up all spills immediately.
- Avoid breathing vapours/ aerosols/ or dusts and avoid contact with skin and eyes.
- Control personal contact by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.
- Place in a suitable labelled container for waste disposal.

MAJOR SPILLS
Slippery when spilt.
Minor hazard.
· Clear area of personnel.
· Alert Fire Brigade and tell them location and nature of hazard.
· Control personal contact by using protective equipment as required.
· Prevent spillage from entering drains or water ways.
· Contain spill with sand, earth or vermiculite.
· Collect recoverable product into labelled containers for recycling.
· Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.
· Wash area and prevent runoff into drains or waterways.
· If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING
- **Avoid all personal contact, including inhalation.**
- **Wear protective clothing when risk of exposure occurs.**
- **Use in a well-ventilated area.**
- **Prevent concentration in hollows and sumps.**
- **DO NOT enter confined spaces until atmosphere has been checked.**
- **DO NOT allow material to contact humans, exposed food or food utensils.**
- **Avoid contact with incompatible materials.**
- **When handling, DO NOT eat, drink or smoke.**
- **Keep containers securely sealed when not in use.**
- **Avoid physical damage to containers.**
- **Always wash hands with soap and water after handling.**
- **Work clothes should be laundered separately. Launder contaminated clothing before re-use.**
- **Use good occupational work practice.**
- **Observe manufacturer's storing and handling recommendations.**
- **Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.**

SUITABLE CONTAINER
- **Metal can or drum**
- **Packaging as recommended by manufacturer.**
- **Check all containers are clearly labelled and free from leaks.**

STORAGE INCOMPATIBILITY
Avoid reaction with oxidising agents.

STORAGE REQUIREMENTS
- **Store in original containers.**
- **Keep containers securely sealed.**
- **Store in a cool, dry, well-ventilated area.**
- **Store away from incompatible materials and foodstuff containers.**
- **Protect containers against physical damage and check regularly for leaks.**
- **Observe manufacturer's storing and handling recommendations.**

continued...

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

Source	Material	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³	Peak ppm	Peak mg/m³	TWA F/CC
Australia Exposure Standards	silica amorphous, fumed, crystalline free (Inspirable dust (Not specified))		10					

The following materials had no OELs on our records
• polydimethylsiloxane: CAS:63148- 62- 9

PERSONAL PROTECTION

RESPIRATOR
Type A-P Filter of sufficient capacity

EYE
· Safety glasses with side shields.
· Chemical goggles.
· Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

HANDS/FEET
Wear chemical protective gloves, eg. PVC.
Wear safety footwear or safety gumboots, eg. Rubber.

OTHER
· Overalls.
· P.V.C. apron.
· Barrier cream.
· Skin cleansing cream.
· Eye wash unit.

ENGINEERING CONTROLS
General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
White translucent grease with a mild odour; not miscible with water.

PHYSICAL PROPERTIES
Does not mix with water.
Floats on water.

Molecular Weight: Not Available
Melting Range (°C): Not Available
Solubility in water (g/L): Immiscible
pH (1% solution): Not Applicable
Volatile Component (%vol): <1 (VOC)
Relative Vapour Density (air=1): >1
Lower Explosive Limit (%): Not Available

Boiling Range (°C): >300
Specific Gravity (water=1): 0.98
pH (as supplied): Not Applicable
Vapour Pressure (kPa): <0.667
Evaporation Rate: Not Available
Flash Point (°C): >93 (TCC)
Upper Explosive Limit (%): Not Available

continued...

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Autoignition Temp (°C): Not Available
State: Non Slump Paste

Decomposition Temp (°C): Not Available
Viscosity: Not Available

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

Product is considered stable and hazardous polymerisation will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

CHRONIC HEALTH EFFECTS

TOXICITY AND IRRITATION

Not available. Refer to individual constituents.

Section 12 - ECOLOGICAL INFORMATION

No data

Section 13 - DISPOSAL CONSIDERATIONS

- **Recycle wherever possible or consult manufacturer for recycling options.**
- **Consult State Land Waste Management Authority for disposal.**
- **Bury residue in an authorised landfill.**
- **Recycle containers if possible, or dispose of in an authorised landfill.**

Section 14 - TRANSPORTATION INFORMATION

HAZCHEM: None

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS:UN

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE: None

REGULATIONS

polydimethylsiloxane(CAS: 63148-62-9)is found on the following regulatory lists;
Australia Inventory of Chemical Substances(AICS)
Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix C
Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 4
IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances
OECD RepresentativeList of High Production Volume (HPV) Chemicals

silica amorphous,fumed, crystalline free (CAS: 112945-52-5)is found on the following regulatory lists;
Australia Exposure Standards
Australia High Volume Industrial Chemical List (HVICL)
Australia Inventory of Chemical Substances(AICS)
International Council of Chemical Associations(ICCA) - High Production Volume List
OECD RepresentativeList of High Production Volume (HPV) Chemicals

No data available for silica amorphous,fumed, crystalline free as CAS: 67256-35-3.

continued...

Section 16 - OTHER INFORMATION

INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name	CAS
silica amorphous, fumed, crystalline free	112945- 52- 5, 67256- 35- 3

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