

MATERIAL SAFETY DATA SHEET

TKG® FLON (PTFE)

Section 1. COMPANY AND PRODUCT IDENTIFICATION

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Material Name: TKG® FLON
PTFE.

Section 2. COMPOSITION / INFORMATION ON COMPONENTS

MATERIAL	CAS Number	%
Polytetrafluoroethylene	9002-84-0	12.0

Product formulation is Proprietary and no ingredients are known to be hazardous under normal usage. Not a hazardous material under normal usage, but PTFE can produce toxic fumes if pyrolyzed.

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Oil Mist	5 mg/m ³	NE	5 mg/m ³	NE	5 mg/m ³	10 mg/m ³	2500 mg/m ³

Section 3. HAZARDS IDENTIFICATION

Emergency Overview: May irritate eyes. Prolonged or repeated skin contact may cause irritation. Inhalation of oil mist or vapors from material at high temperatures may irritate respiratory passages. Polytetrafluoroethylene (PTFE), when thermally decomposed (over 290°C), may cause polymer fume fever. Thermal decomposition of PTFE (over 290°C) will generate hydrogen fluoride.

Eye Contact: May cause irritation.

Skin Contact: Repeated or prolonged skin contact may cause irritation. Thermal decomposition of PTFE (over 290°C) will generate hydrogen fluoride, which is corrosive, causing burns on contact with skin and other tissue.

Inhalation: Oil mist and vapours at high temperatures may irritate respiratory passages. Inhalation of decomposition products of PTFE (over 290°C) may cause polymer fume fever, a temporary flu-like illness accompanied by fever, chills, and sometimes cough, of approximately 24 hours duration. Repeated episodes of polymer fume fever may cause lung damage. Inhalation of fluorine compounds as decomposition products of PTFE (over 290°C) may cause lung irritation and pulmonary edema.

Ingestion: May cause gastrointestinal irritation.

Primary Route(s) of Entry: Inhalation at high temperatures, eye contact, skin contact.

Target Organs: Respiratory passages at high temperatures, eyes, skin.

Medical Conditions Aggravated by Long-Term Exposure: Individuals with pre-existing diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures from thermal decomposition products.

Carcinogenicity: IARC, NTP, and OSHA do not list HP 6040-1314 Grease or its ingredients as carcinogens.

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MATERIAL SAFETY DATA SHEET

TKG® FLON (PTFE)

Section 4. FIRST AID MEASURES

- Eye contact:** Flush thoroughly with water for at least 15 minutes. Get immediate medical attention.
- Skin contact:** Remove contaminated clothing. Wash exposed area with soap and water. Get medical attention if symptoms persist.
- Inhalation:** If symptoms develop, remove affected person from source of exposure into fresh air. Get immediate medical attention. If person is not breathing, give artificial respiration. If breathing is difficult, administer oxygen if available.
- Ingestion:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by a physician.

Section 5. FIRE FIGHTING MEASURES

- Flash Point:** over 400°F (204°C)
- Flash Point Method:** CC, ASTM D93
- Lower Flammable Limit (LFL):** N/A
- Upper Flammable Limit (UFL):** N/A
- Extinguishing Media:** CO₂, Foam, Dry Chemical, Water Spray
- Unusual Fire or Explosion Hazards:** None
- Hazardous Combustion Products:** Hydrogen fluoride, carbonyl fluoride, carbon monoxide and small amount of other toxic fumes.
- Fire-Fighting Instructions:** Wear a NIOSH approved positive pressure self-contained breathing apparatus with full protective clothing. Do not release runoff from fire control methods to sewers or waterways.

Section 6. ACCIDENTAL RELEASE MEASURES

- Spill Response:** Observe precautions from other sections. Contain any spill with dikes or absorbents to prevent migration and entry into drains, sewers or bodies of water. Wipe or scrape up grease and place it in a proper container for disposal. Wash walking surfaces thoroughly to reduce slipping hazard. Follow applicable OSHA (29 CFR 1910.120), state and local regulations.

Section 7. HANDLING AND STORAGE

- Handling Precautions:** Exercise ordinary care in handling industrial lubricants. Avoid contamination of cigarettes or other tobacco products. Wash hands thoroughly before eating or smoking. Remove contaminated clothing and clean before reuse. Users should be alert to the possibility that very small percentages of the population may display unexpected allergic reactions to otherwise innocuous industrial lubricants and raw materials.
- Storage Requirements:** Do not store in open or unlabeled containers. Store away from incompatibles.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Eye Protection:** Avoid eye contact. Wear safety glasses or chemical goggles in accordance with OSHA 29 CFR 1910.133.
- Skin Protection:** Avoid skin contact. Wear chemical protective gloves. Depending upon conditions of use, additional protection may be necessary such as a face shield, apron, etc.
- Ventilation:** Local ventilation is generally not necessary under normal conditions of use with adequate general ventilation. Ventilation and other forms of engineering controls are the preferred means for controlling chemical exposures.

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MATERIAL SAFETY DATA SHEET

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- Respiratory Protection:** Avoid breathing oil mist. Respiratory protection is generally not necessary under normal conditions of use with adequate general ventilation.
- Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
- Other Precautionary Information:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance and Odor:** Smooth, blue grease with slight odor
- Vapor Pressure:** Negligible
- Vapor Density:** Not Determined
- Formula Weight:** Not Calculated
- Specific Gravity (H₂O=1, at 4 °C):** Not Determined
- pH:** Not Determined
- Water Solubility:** Insoluble
- Boiling Point:** Not volatile
- Dropping Point:** Non-melting
- % Volatile:** None
- Evaporation Rate:** Not Determined

Section 10. STABILITY AND REACTIVITY

- Stability:** HP 6040-1314 Grease is stable at room temperature in closed containers under normal storage and handling conditions.
- Polymerization:** This product will not undergo hazardous polymerization.
- Chemical Incompatibilities:** Strong oxidizing materials
- Conditions to Avoid:** Pyrolysis
- Hazardous Decomposition Products:** Thermal oxidative decomposition of HP 6040-1314 Grease can produce hydrogen fluoride, carbonyl fluoride, carbon monoxide as well as small amounts of other toxic fumes.

Section 11. TOXICOLOGICAL INFORMATION

- Toxicity Data:** None available.

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TKG® FLON (PTFE)

Section 12. ECOLOGICAL INFORMATION

Environmental Fate and Effects: No data has been established for this product.

Section 13. DISPOSAL CONSIDERATIONS

Disposal: Contact a licensed waste-disposal contractor for detailed recommendations.

Disposal Regulatory Requirements: any states classify waste lubricants as “hazardous”, which means disposal only by a licensed firm. Follow applicable Federal, state, and local regulations.

Section 14. TRANSPORTATION INFORMATION

DOT Transportation Data (49 CFR 172.101): Not Regulated.

Section 15. REGULATORY INFORMATION

TSCA: All components of this product are listed on the TSCA inventory.

EPA Regulations:
SARA 311/312 Hazard Class (40 CFR 370)

Immediate (Acute) Health Hazard No

Sudden Release of Pressure Hazard No

Reactive Hazard No

Delayed (Chronic) Health Hazard No

Fire Hazard No

SARA 313 Toxic Chemicals (40 CFR 372)

No ingredients listed

SARA Extremely Hazardous Substances (40 CFR 355)

No ingredients listed

CERCLA Hazardous Substances (40 CFR 302)

No ingredients listed

Section 16. OTHER INFORMATION

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