Material Safety Data Sheet

HP6040-1109 **MSDS No. HP6040-1109**

Date of Preparation: 7/23/01 Revision Date: 7/23/01

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: HP6040-1109
General Use: Lubricating Grease
Manufacturer: Nye Lubricants, Inc.
12 Howland Road
Fairhaven, MA 02719 U.S.A.
Telephone: (508) 996-6721 (8:00AM - 5:00PM ET weekdays)
Nights and weekends (Medical Emergencies ONLY): CHEMTREC (800) 424-9300

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt *or* % vol
Polytetrafluoroethylene, PTFE*	9002-84-0	15.0
Product formulation is Proprietary No ingredients are known to be hazardous under normal usage.		

*Not a hazardous material under normal usage, but PTFE can produce toxic fumes if pyrolized.

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

NE= None Established

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Summary of risks: 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.

HMIS
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PPE†
†Sec. 8

Potential Health Effects

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 vapors 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 HP6040-1109 or its ingredients as carcinogens.

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 persists.
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: CO_2, 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.
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, white to light tan grease with slight odor
Vapor Pressure: Negligible
Vapor Density: Not Determined
Formula Weight: Not Calculated
Specific Gravity (H_2O=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: HP6040-1109 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 HP6040-1109 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.

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: Many states classify waste lubricants as "hazardous", which means disposal only by a licensed firm. Follow applicable Federal, state, and local regulations.

Section 14 - Transport 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) — CAS Number — %
No ingredients listed

SARA Extremely Hazardous Substances (40 CFR 355) — CAS Number — % — Threshold Planning Quantity (TPQ)
No ingredients listed

CERCLA Hazardous Substances (40 CFR 302) — CAS Number — % — Reportable Quantity (RQ)
No ingredients listed

Section 16 - Other Information

Prepared By: WMM
Disclaimer: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Nye Lubricants, Inc. makes no warranty with respect thereto and disclaims all liability with respect thereon.