


Material Safety Data Sheet



MSD068

Rev. A
Updated: 3/04

 INSTRUCTIONS	This Data Sheet contains important information. READ AND KEEP FOR REFERENCE.
--	--

1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hoerbiger HY22 and HY49

Chemical Name:

Manufacturer / Supplier:

Graco Inc.
P.O. Box 1441
60 11th Ave. NE
Minneapolis, MN 55440-1441

Part Number(s): 569229, 569223




Use: Lubricating Bar for Stick Lube Applicator

Emergency Information:

Health Emergency (RMPC): (303)- 623-5716

Chemical Spills (Chemtrec): (800)- 424-9300

Section 2: Hazards Identification

Personal Protective Equipment	NFPA Rating (USA)	European Classification	WHMIS (Canada)	Transportation
For normal parts handling No special requirements		Not classified as dangerous	 Not controlled	 Not regulated
For cutting and machining operations 				

Emergency Overview:

Exposure to hazardous or dangerous substances is not expected when handling this product for its intended use. Extreme heating (>300°C) or during a fire may generate dense smoke, irritating and toxic fumes. In some workplaces, machining, cutting or grinding operations with this product may lead to generation of composite dust. Exposure to dusts may have occupational health hazards.

Appearance, Color and Odor: Dark gray to black matte solid, formed shape. Odorless.

USA: This product is an article pursuant to 29 CFR 1910.1200 and, as such, is not subject to the OSHA Hazard Communication Standard requirement

Canada: This is not a controlled product under WHMIS. This product meets the definition of a "Manufactured Article" and is not subject to the regulations of the Hazardous Products Act.

European Communities (EC): This preparation is not considered dangerous.

While this product is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Section 2: Hazards Identification, continued**Potential Health Effects:** **ACUTE (short term):****Relevant Route(s) of Exposure:** Compressor wear parts and billets do not present an inhalation, ingestion, or contact health hazard unless subjected to extreme heating or machining operations.**Inhalation:** No health effects expected with normal use of the product.

During cutting, grinding or machining operations, airborne particulates may cause temporary irritation of the respiratory tract. Extreme heating (>300°C) of the product can release irritating vapors. Symptoms of irritation include coughing, sneezing, nasal discharge, headache, hoarseness and pain in the upper respiratory tract.

Products of thermal decomposition of fluorocarbon monomers and polymers can produce a condition known as "polymer-fume fever"; the symptoms are flu-like (chills, headache and fever) with chest tightness and mild cough, onset of symptoms may be delayed.

Ingestion: Not an applicable route of occupational exposure.**Skin:** No health effects expected with normal use of the product.**Eye:** No health effects expected with normal use of the product.

During cutting, grinding or machining operations, airborne particulates may cause temporary irritation as a foreign object in the eye. Extreme heating of the product can release irritating vapors. Symptoms of irritation include redness, swelling, pain and blurred or hazy vision.

CHRONIC (long term): see Section 11 for additional toxicological data

No health effects expected with normal use of the product.

Medical Conditions Aggravated by Exposure: Not available**Interactions With Other Chemicals:** Cigarette smoking is a common means of creating exposure to the products of decomposition of fluorocarbon monomers and polymers. Fluorocarbons may be deposited on cigarettes from the air or from workers' fingers. As a cigarette is smoked, fluorocarbons are then burned and the products of decomposition are inhaled with the cigarette smoke.**Potential Environmental Effects:** Not available**Section 3: Composition and Ingredient Information**

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS No.</u>	<u>Wt.%</u>	<u>EINECS / ELINCS</u>	<u>Symbol</u>	<u>Risk Phrases</u>
PTFE	Polytetrafluoroethylene	9002-84-0	35 - 65	Polymer not listed Monomer is listed 204-126-9	None*	None
Carbon powder	Coke (petroleum), calcined	64743-05-1	10 - 40	265-210-9	None*	None
Graphite, Natural	Graphite, natural	7782-42-5	10 - 25	231-955-3	None*	None
Crystalline silica, quartz	Crystalline silica, quartz	14808-60-7	0.5 - 1.3	238-878-4	None*	None

Note: *This chemical substance is not classified in the Annex I of Directive 67/548/EEC. See Section 8 of this MSDS for exposure limit data for these ingredients. See Section 16 for the full text of the R-phrases above.

Section 4: First Aid Measures

Inhalation:	If symptoms are experienced remove source of contamination or move victim to fresh air. Obtain medical advice.
Eye Contact:	Do not allow victim to rub eye(s). Let the eye(s) water naturally for a few minutes. Have victim look right and left, and then up and down. If particle/dust does not dislodge, flush with lukewarm, gently flowing water for 5 minutes or until particle/dust is removed, while holding the eyelid(s) open. If irritation persists, obtain medical attention. DO NOT attempt to manually remove anything stuck to eye(s).
Skin Contact:	Quickly and gently, blot or brush away excess particulate. Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5 minutes. If irritation develops, obtain medical advice.
Ingestion:	Not an expected route of exposure; no first aid measures expected to be required.

Section 5: Fire Fighting Measures

Flammable Properties:	Not flammable
Suitable extinguishing Media:	Use extinguishing media appropriate for the surrounding fire.
Unsuitable extinguishing Media:	Not applicable
Explosion Data:	
Sensitivity to Mechanical Impact:	Not applicable
Sensitivity to Static Discharge:	Not applicable
Specific Hazards arising from the Chemical:	Irritating and harmful fumes are released when PTFE is heated above 300°C. The decomposition products and the resulting health effects are temperature-dependent.
Protective Equipment and precautions for firefighters:	Firefighters should wear full protective gear including self-contained breathing apparatus when fighting chemical fires. Any water runoff should be minimized and contained.

Section 6: Accidental Release Measures

Personal Precautions:	Wear adequate personal protective equipment as indicated in Section 8. Isolate spill area, preventing entry by unauthorized persons. Ventilate area of spill if there is excessive airborne dust or fume.
Environmental Precautions:	Minimize entry of material into sewers and drainage systems. Refer to permit discharge limitations if applicable.
Methods for Containment:	Contain spill immediately.
Methods for Clean-up:	Avoid dust generation. Scrape or scoop product for re-use or place a secure container for disposal.

Section 7: Handling and Storage

Handling:	During machining operations, avoid contact with eyes and skin; do not breathe in any dust. Wear protective gloves. Wash thoroughly with detergent and water after handling, before eating, drinking, smoking or using the toilet. Remove contaminated clothing and wash before reuse.
Storage:	No special requirements.

Section 8: Exposure Controls and Personal Protection

<u>Ingredient</u>	<u>ACGIH TLV (8-hr. TWA) (mg/m³)</u>	<u>U.S. OSHA PEL (8-hr. TWA) (mg/m³)</u>	<u>Ontario TWAEV (mg/m³)</u>	<u>UK OEL (8-hr. TWA) (mg/m³)</u>
Polytetrafluoroethylene	Not established	Not established	Not established	Not established
Carbon powder	Not established	Not established	Not established	Not established
Graphite, Natural	2 (respirable)	15 mppcf	2 (respirable)	10 (inhalable) 4 (respirable)
Crystalline silica, quartz	0.025 (respirable)	30 mg/m ³ / (%SiO ₂ + 2) -quartz (total dust); 10 mg/m ³ / (%SiO ₂ + 2) -quartz (respirable)	0.1 (Designated substance in Ontario)	0.1 (respirable)

Chemical Manufacturer Recommended Exposure Guidelines (CMRG):

For Polytetrafluoroethylene (PTFE): 10 mg/m³ (total dust); 5 mg/m³ (respirable dust).

Engineering Controls:

Not required for normal use.
In workplaces where a dust or fume is created, monitor the workplace air and provide ventilation to control airborne concentrations below exposure limits.

Personal Protection:

Eye/Face Protection:

Not required for normal use.
During machining operations, wear eye and face protection appropriate for the operation.

Skin Protection:

Not required for normal use.
During machining operations, wear impervious gloves and clean, body-covering clothing to prevent skin exposure.

Respiratory Protection:

Not required for normal use. When dust, mist or vapor concentrations in air exceed the occupational exposure guidelines, always wear respiratory protection. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 or Canadian Standards Association (CSA) Standard Z94.4-2002 must be followed whenever workplace conditions warrant a respirator's use.

Work/Hygienic Practices:

Workers whose clothing has been contaminated by product should change into clean clothing promptly. Do not eat, smoke or drink in workplaces where this product is processed by machining operations. Wash hands carefully before eating, drinking or smoking.

Section 9: Physical and Chemical Properties

Physical State:	Solid	Flash Point & method:	Not applicable
Appearance, Colour and Odour:	Dark gray to black matte solid. Odorless.	Autoignition Temperature:	Not applicable
Odour Threshold:	Not applicable	Flammability Limits in Air:	Not applicable
pH:	Not applicable	Vapour Pressure:	Not applicable
Relative density: (water = 1)	HY22= 1.85 HY49= 1.70	Vapour Density: (Air = 1)	Not applicable
Partition coefficient: (n-octanol/water)	Not applicable	Evaporation Rate: (n-Butyl Acetate = 1)	Not applicable
Solubility:	Insoluble in water.	Boiling Point/Range:	Not applicable
Viscosity:	Not applicable	Freezing Point:	Not applicable
Decomposition Temperature:	>300°C		

Section 10: Stability and Reactivity

Chemical Stability:	Stable
Conditions to Avoid:	Avoid conditions of extreme heat above 300°C. Avoid generating airborne dusts of this material.
Incompatible Materials:	Not available
Hazardous Decomposition Products:	When heated to decomposition (>300°C) this material may release carbonyl fluoride, hydrogen fluoride, perfluoroisobutylene (PFIB) and other irritating and toxic vapors or particulates.
Possibility of Hazardous Reactions:	Not available

Section 11: Toxicological Information**Acute Toxicity Data**

Product	LD₅₀ Oral (mg/kg)	LD₅₀ Dermal (mg/kg)	LC₅₀ Inhalation (4 hrs.)
Polytetrafluoroethylene	Not available	Not available	Not available
Carbon powder	Not available	Not available	Not available
Graphite, Natural	Carbon: > 10 000 (rat)	Not available	Not available
Crystalline silica, quartz	Not available	Not available	Not available

Section 11: Toxicological Information, continued

Irritation:	Not applicable
Corrosivity:	Not applicable
Sensitization:	Not applicable
Neurological Effects:	Not applicable
Genetic Effects:	Not applicable
Reproductive Effects:	Not applicable
Developmental Effects:	Not applicable
Target Organ Effects:	Not applicable
Carcinogenicity:	No carcinogenic effects expected from exposure to this product during its intended use. The table below indicates whether or not each agency has listed any ingredient as a carcinogen.

Ingredient	ACGIH	IARC	NTP
Polytetrafluoroethylene	Not listed	Group 3	Not listed
Carbon powder	Not listed	Not listed	Not listed
Graphite, Natural	Not listed	Not listed	Not listed
Crystalline silica, quartz (as inhaled particulate)	A2	Group 1	Known human carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen.
IARC: (International Agency for Research on Cancer).
Group 1 - Carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity in humans.
NTP: (National Toxicology Program)

Section 12: Ecological Information

Ecotoxicity:	Ecotoxicity is expected to be low due to the product's insolubility in water.
Persistence/Degradability:	Product is not readily biodegradable.
Bioaccumulation/Accumulation:	Not available
Mobility:	Not available

Section 13: Disposal Considerations

Waste Disposal Method:	Do NOT dump into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage.
USA:	Dispose of in accordance with local, state and federal laws and regulations.
Canada:	Dispose of in accordance with local, provincial and federal laws and regulations.
EC:	Waste must be disposed of in accordance with relevant EC Directives and national, regional and local environmental control regulations. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

Section 14: Transport Information

Canadian Transportation of Dangerous Goods (TDG):	Not regulated
U.S. Hazardous Materials Regulation (DOT 49CFR):	Not regulated
IMO Classification:	Not regulated
Marine Pollutants:	None
ICAO/IATA Classification:	Not regulated

Section 15: Regulatory Information

USA

TSCA Status: All component substances of this mixture are listed on the TSCA inventory.

SARA Title III:

Sec. 302/304: Not applicable
Sec. 311/312: Not applicable
Sec. 313: Not applicable
CERCLA RQ Not applicable

California Proposition 65: If a dust is created in use, this product may contain substances known to the State of California to cause cancer [Crystalline Silica – as airborne particles of respirable size].

Canada

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

WHMIS Classification: Not controlled

NSNR Status (New Substance Notification Regulations): All substances in this preparation are listed on the DSL.

NPRI Substances (National Pollutant Release Inventory): There are no NPRI reportable ingredients in this product.

EC Classification for the Substance/Preparation:

Symbol: Not classified as dangerous

Risk Phrases: Not applicable

Safety Phrases: Not applicable

European Inventories: All substances in this preparation are listed in EINECS.

Other International Inventories:

Australia: All component substances are present on the Inventory of Chemical Substances (AICS).

China: All component substances are present on the Chemical Inventory.

Japan: Coke (petroleum), calcined and Graphite are not listed; all other component substances are present on the inventory - Existing and New Chemical Substances (ENCS).

Korea: All component substances are present on the inventory - Existing and Evaluated Chemical Substances.

New Zealand: All component substances are present on the Chemical Inventory.

Philippines: Coke (petroleum), calcined is not listed; all other component substances are present on the inventory of Chemicals and Chemical Substances (PICCS).

Prepared By	Graco, Inc.
--------------------	-------------

This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we have received from sources outside our company. We believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this Data Sheet may not be adequate for all individuals and/or situations. It is the users' obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

NOTES: NA = Not Applicable; NE = Not Established; UN = Unavailable

All written and visual data contained in this document reflects the latest product information available at the time of publication.

Graco reserves the right to make changes at any time without notice.

Headquarters: Minneapolis

International Offices: Belgium, Korea, Hong Kong, Japan

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441

www.graco.com

PRINTED IN U.S.A.