

# MATERIAL SAFETY DATA SHEET



## GTP600 Graphite Lubrication Paste

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Page: 1

NORD-LOCK AB REQUESTS THE USERS OF THIS PRODUCT TO STUDY THIS MATERIAL SAFETY DATA SHEET (MSDS) AND BECOME AWARE OF PRODUCT HAZARDS AND SAFETY INFORMATION. TO PROMOTE SAFE USE OF THIS PRODUCT, USERS SHOULD NOTIFY THEIR EMPLOYEES, AGENTS AND CONTRACTORS OF THE INFORMATION ON THIS MSDS AND ANY PRODUCT HAZARDS AND SAFETY INFORMATION.

### 1. PRODUCT AND COMPANY IDENTIFICATION

## GTP600 Graphite Lubrication Paste

(Patent No. 48,872,914)

**Supplier:** NORD-LOCK AB  
Halabacken 180  
S-830 02 MATTMAR  
Sweden

**Contact person:** Bert Persson, tel +46 (0)640 681186

**Chemical Name:** Graphite/ Mineral Oil/ Petrolatum Paste

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Material	Weight Percent	EINECS No.	CAS Registry No.
1. Graphite	40-60	231-955-3	7782-42-5
2. White Mineral Oil	25-50	232-455-8	8042-47-5
3. Petrolatum USP	5-25	232-373-2	8009-03-8
4. Crystalline Silica (See Section 16, Item 2)	<0.3	238-878-4	14808-60-7

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PRODUCT DOES NOT RELEASE HAZARDOUS SUBSTANCES IN NORMAL USE. OIL MIST MAY BE FORMED AT ELEVATED TEMPERATURES. FLASH POINT IS 320°F (160°C).**

Primary Route of Exposure:

Inhalation of dusts and mists generated during processing and handling, and dermal and ocular contact with liquids or solids.

Effects of Overexposure:

## GTP600 Graphite Lubrication Paste

Issue date: 2008-10-29

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Revision date: 2008-10-29

Page: 2

- Acute:** High concentration of graphite dusts may be irritating to the eyes, skin, mucous membranes and respiratory tract.
- High concentrations of mineral oil vapors and mists may be irritating to the eyes, skin, mucous membranes and respiratory tract. Liquid mineral oil is moderately irritating to the skin. Ingestion of the product is considered unlikely, however, mineral oil may be irritating to the mouth, esophagus, and stomach and cause abdominal cramps and diarrhea.
- Chronic:** Inhalation of high concentrations of graphite dusts over prolonged periods of time may cause pneumoconiosis. Symptoms can include cough, shortness of breath and decrease in pulmonary function.
- Prolonged dermal contact with mineral oil may cause dermatitis. Some susceptible individuals may develop an allergic sensitization to mineral oil. If an individual becomes sensitized to a material, they should be removed from all future contact with the material. After sensitization has occurred, any exposure, however minimal, will cause they symptoms to appear.
- Pre-existing pulmonary disorders, such as emphysema, may possibly be aggravated by prolonged exposure to high concentrations of graphite dusts.
- Pre-existing dermal and respiratory hypersensitivities may possible be aggravated by exposure to mineral oil mists, vapors or liquids.
- Inhalation of high concentrations of crystalline silica dusts over prolonged periods of time may cause silicosis, a progressively debilitating lung disease. The symptoms are similar to those cited above for pneumoconiosis. (See Section 16, Item 2.) Inhalation of high concentrations of crystalline silica over prolonged periods of time has also been linked to an increased incidence of lung cancer. (See Section 11)

### Physical Hazards:

Graphite dusts are electrically conductive. Accumulations of dusts may cause shorting of electrical circuits. Care should be taken to seal electrical circuits and switches that may be affected. Dusts should not be emitted to the atmosphere where they may settle on and cause shorting of electrical equipment.

## 4. FIRST AID MEASURES

- Inhalation:** For overexposure to fumes, vapors or particulate matter, remove the exposed person to fresh air. If breathing is difficult, oxygen may be administered. Seek medical attention.  
If breathing has stopped, artificial respiration should be started immediately. Seek medical attention.
- Eye contact:** If material enters the eye, flush with water for at least 15 minutes. Seek medical attention if irritation develops or persists.
- Skin contact:** If material gets on the skin, wash thoroughly with mild soap and water. Seek medical

## GTP600 Graphite Lubrication Paste

Issue date: 2008-10-29

Version number: 1

Revision date: 2008-10-29

Page: 3

attention if irritation develops or persists. Dermatitis should be treated symptomatically by a physician.

Ingestion: Ingestion is not expected to be an important route into the body. If, however, the material is, do not induce vomiting. Vomits may be aspirated into the lungs and cause pulmonary edema, chemical pneumonia or hemorrhage. Never give anything by mouth to an unconscious person.  
Seek medical attention.

### 5. FIRE FIGHTING MEASURES

Flashpoint and Method: 320°F (160°C) COC

Flammable Limits: LEL: Not Determined UEL: Not Determined

Autoignition Temperature: Not Determined

Extinguishing Media: Use carbon dioxide, dry chemical or foam.

Special Firefighting Procedures: Material in or near fires should be cooled with a water spray or fog.

Unusual Fire and Explosion Hazards: Thermal decomposition or combustion may produce smoke, oxides of carbon and low molecular weight organic compounds whose composition has not been characterized.

### 6. ACCIDENTAL RELEASE MEASURES

Eliminate potential sources of ignition, isolate spill, and keep all unauthorized personnel well clear of the area unless wearing appropriate protective clothing. See section 8. Shovel into DOT-approved containers for transfer to an approved disposal site. Absorb residue with clay, sand or other suitable material. Flush with water containing detergent. Collect water for disposal. Do not allow material or rinse water to enter storm or sanitary sewers, groundwater or soil. Releases may be reportable to local, state or federal authorities. Consult federal, state or local regulatory requirements for more information.

### 7. HANDLING AND STORAGE

Store in labeled, closed containers away from heat, spark, open flames and other sources of ignition. Do not store with or near incompatible chemicals cited in Section 10. Do not let dust from material accumulate in the workplace. Promptly clean up any spills that may occur. Any dusts generated during handling or processing should be cleaned up by wet mopping or vacuuming. Dry sweeping can resuspend particulate matter in the atmosphere.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Ventilation. If dusts are generated during processing or use, local exhaust ventilation should be provided to maintain exposures below the

# MATERIAL SAFETY DATA SHEET



## GTP600 Graphite Lubrication Paste

Issue date: 2008-10-29

Version number: 1

Revision date: 2008-10-29

Page: 4

limits cited in Section 2.

Personal Protection:

Respiratory: If exposures exceed the limits cited in Section 2 by less than a factor of

10, use a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter.

Eye Protection: Chemical splash goggles should be worn to prevent eye contact with mists and particulate matter.

Protective Gloves: Neoprene gloves are recommended to prevent skin contact during processing and handling operations.

All chemicals should be handled so as to prevent eye contact and excessive or repeated skin contact. Appropriate eye and skin protection should be employed. Inhalation of dusts and vapors should be avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Gray-Black Paste
<b>Odor:</b>	None
<b>Melt point:</b>	115°F
<b>Specific Gravity:</b>	1.5-1.7
<b>Vapor Density (Air=1):</b>	Not Determined
<b>% Volatile by Volume:</b>	40-60%
<b>Bulk Density:</b>	Not Applicable
<b>Boiling Point:</b>	>600-620°F
<b>Vapor Density:</b>	<1 mm hg @ 70°F
<b>%Solubility (H<sub>2</sub>O):</b>	Insoluble
<b>Evaporation Rate (BUOAC=1):</b>	Not Applicable
<b>Other:</b>	Not Applicable

## 10. STABILITY AND REACTIVITY

Conditions Causing Instability:	Material is stable in closed containers at room temperature.
Incompatibility (Materials to Avoid):	Avoid contact with strong oxidizing agents.
Hazardous Decomposition Products:	See Section 5 for possible combustion and/or thermal



# MATERIAL SAFETY DATA SHEET



## GTP600 Graphite Lubrication Paste

Issue date: 2008-10-29

Version number: 1

Revision date: 2008-10-29

Page: 6

All components are listed on:

U.S.: TSCA

EC: EINECS

Canada: DSL

CERCLA REPORTABLE QUANTITY: Not Applicable

RCRA STATUS: Not Applicable

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: Not Applicable

SECTION 311/312 HAZARD CATEGORIES: Not Applicable

SECTION 313 TOXIC CHEMICALS: Not Applicable

STATUS REGULATORY INFORMATION:

1. WARNING: The crystalline silica component of this formulation has been identified as a "chemical known to cause cancer" by the State of California.

<u>COMPONENT NAME</u>	<u>CAS REGISTRY No</u>	<u>CONCENTRATION</u>
Crystalline Silica	14808-60-7	<0.3%

## 16. OTHER INFORMATION

**NOTICE FROM NORD-LOCK AB:** The data in this Material Safety Data Sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process. The information contained herein is based on available scientific literature obtained by NORD-LOCK AB and is current as of the date of issue of this Material Safety Data Sheet. NORD-LOCK AB makes no representation as to the accuracy of the scientific literature on which it has relied in the preparation of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of NORD-LOCK AB it is the user's obligation to determine the conditions of safe use of this product.

1. This product is WHMIS Controlled D2A
2. Personnel samples taken during cut-part fabrication showed non-detectable levels of crystalline silica.