

# ***MATERIAL SAFETY DATA SHEET***

## ***EXT NANO – CERAMIC GREASE***

---

### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**TRADE NAME:** EXT NANO-CERAMIC GREASE

**PRODUCT USE:** LUBRICATING GREASE

**SUPPLIER:** NANOPLAS, INC  
2140 TOUHY AVE  
ELK GROVE, IL 60008  
847-228-6050  
847-439-2411

**EMERGENCY  
TELEPHONE:** DON KIRCHNER  
847-877-0374

### **2. COMPOSITION, INFORMATION ON INGREDIENTS**

**COMPOSITION  
COMMENTS:** CHEMICAL INGREDIENTS NOT REGULATED BY  
OHSА OR SARA ARE TREATED CONFIDENTLY.  
THIS PRODUCT CONTAINS NO INGREDIENTS AT  
GREATER THAN 1% WHICH HAVE BEEN  
ASSIGNED EXPOSURE LIMITS BY REGULATORY  
AGENCIES

### **3. HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW ACUTE EFFECTS**

**HEALTH  
HAZARDS:** NOT REGARDED AS A HEALTH HAZARD UNDER  
CURRENT LEGISLATION.

#### **CHRONIC EFFECTS**

**SENSITIZATION:** NO KNOWN INFORMATION

**CARCINOGENICITY:** IARC: NOT LISTED. OSHA: NOT REGULATED.  
NTP: NOT LISTED

**TERATOGENICITY:** NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS CONTAINED AT GREATER THAN 0.1% MAY CAUSE BIRTH DEFECTS.

### **HEALTH WARNINGS**

SKIN CONTACT. REPEATED OR PROLONGED CONTACT CAN RESULT IN DRYING OF THE SKIN. INHALATION. HEATING CAN GENERATE VAPORS THAT MAY CAUSE RESPIRATORY IRRITATION, NAUSEA AND HEADACHES. INHALATION HAZARD AT ROOM TEMPERATURE IS UNLIKELY DUE TO THE LOW VOLATILITY OF THIS PRODUCT. EYE CONTACT. SLIGHTLY IRRITATING. INGESTION. CAN CAUSE DISCOMFORT

### **OTHER INFORMATION**

**ROUTE OF ENTRY:** INHALATION. SKIN AND/OR EYE CONTACT. INGESTION

**MEDICAL SYMPTOMS:** MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NOT DETERMINED

## **4. FIRST AID MEASURES**

**INHALATION:** MOVE THE EXPOSED PERSON TO FRESH AIR AT ONCE. FOR BREATHING DIFFICULTIES OXYGEN MAY BE NECESSARY. GET MEDICAL ATTENTION IF ANY DISCOMFORT CONTINUES

**EYES:** RINSE WITH WATER. CONTACT PHYSICIAN IF DISCOMFORT CONTINUES

**SKIN:** REMOVE CONTAMINATED CLOTHING. WASH SKIN THOROUGHLY WITH SOAP AND WATER. GET MEDICAL ATTENTION IF ANY DISCOMFORT CONTINUES.

**INGESTION:** DO NOT INDUCE VOMITING! GET MEDICAL ATTENTION IMMEDIATELY!

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°C)** > 177 Cd OC (CLEVELAND OPEN CUP)

**FLAMMABILITY  
LIMIT – LOWER(%)** N/D

**FLAMMABILITY  
LIMIT – UPPER(%)** N/D

**FLAMMABILITY  
CLASS** NO UNIFORM FIRE CODE NOTED

**EXTINGUISHING  
MEDIA:** USE: FOAM. CARBON DIOXIDE (CO<sub>2</sub>). DRY  
CHEMICALS, SAND, DOLOMITE ETC.

**SPECIAL FIRE  
FIGHTING  
PROCEDURES:** USE WATER TO KEEP FIRE EXPOSED CONTAINERS  
COOL AND DISPERSE VAPORS. WATER SPRAY  
MAY BE USED TO FLUSH SPILLS AWAY FROM  
EXPOSURES AND DILUTE SPILLS TO NON-  
FLAMMABLE MIXTURES.

**UNUSUAL FIRE  
& EXPLOSION  
HAZARDS:** VOLUME AND PRESSURE INCREASES STRONGLY  
WHEN HEATED. RISK OF CONTAINER EXPLOSION  
OR FIRE

**HAZARDOUS  
COMBUSTION  
PRODUCTS:** ACRID SMOKE/FUMES. OXIDES OF: CARBON.  
SULFUR

**PROTECTIVE  
MEASURES IN  
CASE OF FIRE:** SELF CONTAINED BREATHING EQUIPMENT AND  
CHEMICAL RESISTANT CLOTHING  
RECOMMENDED.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL  
PRECAUTIONS:** MINIMIZE SKIN CONTACT

**PRECAUTIONS  
TO PROTECT THE  
ENVIRONMENT:** KEEP PRODUCT OUT OF SEWER AND  
WATERCOURSES BY DIKING OR IMPOUNDING.  
ADVISE AUTHORITIES OF PRODUCT HAS  
ENTERED OR MAY ENTER SEWERS,  
WATERCOURSES OR EXTENSIVE LAND AREAS.  
ASSURE CONFORMITY WITH APPLICABLE

GOVERNMENT REGULATIONS.

**SPILL CLEAN-UP PROCEDURES:** NON-HAZARDOUS SUBSTANCE. COLLECT IN CLOSED CONTAINER.

## **7. HANDLING AND STORAGE**

**HANDLING PRECAUTIONS:** KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. EYE WASH STATION SHOULD BE AVAILABLE AT THE WORK PLACE.

**STORAGE PRECAUTIONS:** KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. STORE SEPERATED FROM: ACIDS. OXIDIZING MATERIALS.

**STORAGE CRITERIA:** CHEMICAL STORAGE.

## **8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

**PROTECTIVE EQUIPMENT:** EYE PROTECTION

**ENGINEERING CONTROLS:** USE ENGINEERING CONTROLS TO REDUCE AIR CONTAMINATION EXCEEDS ACCEPTABLE LEVEL.

**VENTILATION:** NO SPECIFIC VNETILATION REQUIREMENTS NOTED, BUT FORCED VENTILATION MAY STILL BE REQUIRED IF AIR CONTAMINATION EXCEEDS ACCEPTABLE LEVEL.

**RESPIRATORS:** NO SPECIFIC VENTILATION REQUIREMENTS NOTED, BUT FORCED VENTILATION MAY BE REQUIRED IF AIR CONTAMINATION EXCEEDS ACCEPTABLE LEVEL.

**PROTECTIVE GLOVES:** CHEMICAL RESISTANT GLOVES REQUIRED FOR PROLONGED OR REPEATED CONTACT. USE PROTECTIVE GLOVES MADE OF LATEX.

**EYE PROTECTION:** WEAR SPLASH-PROOF EYE GOGGLES TO PREVENT ANY POSSIBILITY OF EYE CONTACT.

**PROTECTIVE CLOTHING:** WEAR APPROPRIATE CLOTHING TO PREVENT REPEATED OR PROLONGED SKIN CONTACT

**HYGIENIC WORK PRACTICES:** WASH AT END OF EACH WORK SHIFT AND BEFORE EATING, SMOKING AND USING THE TOLIET.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

#### PHYSICAL

#### STATE:

GREASE

#### COLOR:

WHITE

#### ODOR:

MILD (OR FAINT)

#### SOLUBILITY:

INSOLUBLE IN WATER

#### DENSITY:

1.0

TEMPERATURE (°C)

16

VAPOR DENSITY(air=1) >0.5

#### VAPOR PRESSURE

< 0.01 mmHg

TEMPERATURE (°C)

20

#### EVAPORATION RATE:

< 1

REFERENCE

BuAc=1

## 10. STABILITY AND REACTIVITY

#### STABILITY

NORMALLY STABLE

#### CONDITIONS TO AVOID:

AVOID CONTACT WITH ACIDS AND OXIDIZING SUBSTANCES.

#### HAZARDOUS POLYMERIZATION:

WILL NOT POLYMERIZE

#### POLYMERIZATION DESCRIPTION:

NOT APPLICABLE

#### HAZARDOUS DECOMPOSITION PRODUCTS:

OXIDES OF CARBON. SULFUR

## 11. TOXILOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** NO EXPERIMENTAL TOXICOLOGICAL DATA ON THE PREPERATION AS SUCH IS AVAILABLE

## **12. ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** NO DATA ON POSSIBLE ENVIRONMENTAL EFFECTS HAVE BEEN FOUND

**BIOACCUMULATION:** NOT DETERMINED

**BIODEGRADABILITY:** NOT DETERMINED

**ACUTE AQUATIC TOXICITY:** NOT DETERMINED

## **13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS:** SPILLED MATERIAL, UNUSED CONTENTS AND EMPTY CONTAINERS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

## **14. TRANSPORT INFORMATION**

**DOT HAZARD CLASS:** NOT REGULATED

**SEA TRANSPORT:** NOT REGULATED

**AIR TRANSPORT:** NOT REGULATED

## **15. REGULATORY INFORMATION**

US FEDERAL REGULATIONS

CLEAN AIR ACT

**SARA(311/312) HAZARD CATEGOROIES** NONE

US STATE REGULATIONS

**REGULATORY STATUS (Canada)**

NOT A CONTROLLED PRODUCT

**WORKPLACE HAZARDOUS MATERIALS INFORMATION  
SYSTEM – WHIMIS**

**INVENTORIES**

**16. OTHER INFORMATION**

**HEALTH:** NO HEALTH HAZARDS SPECIFICALLY NOTED FOR  
FIRE SITUATIONS (0). – HMIS/NFPA

**FLAMMABILITY:** BURNS ONLY IF PRE-HEATED (1) HMIS/NFPA

**REACTIVITY:** NORMALLY STABLE (0) HMIS/NFPA

**PREPARED BY:** KELLIE S. GULBRANSEN

**DATE:** 4-10-09

**PRINTING DATE:** 4-10-09

**DISCLAIMER:** WHILE THE INFORMATION AND  
RECOMMENDATIONS SET FORTH HEREIN ARE  
BELIEVED TO BE ACCURATE AS OF THE DATE  
THEREOF, NANOPLAS INCORPORATED MAKES  
NO WARRANTY WITH RESPECT THERETO AND  
DISCLAIMS ALL LIABILITY FROM RELIANCE  
THEREIN.