



Material Safety Data Sheet Gruvlok Xtreme Temperature Lubricant

Issue Date: July 2006 (Revised: January 2014)

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: Gruvlok Xtreme Temperature Lubricant
Product Synonyms: Gasket grease
Company Identification: ANVIL INTERNATIONAL, LLC
2 HOLLAND WAY
EXTER, NH 03833

Contact: Corporate
Emergency Telephone: (631) 345-3000
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Note: The purpose of this MSDS is to provide safe handling, shipping and disposal information for users of the product. It is not intended to, nor does it, provide complete or extensive toxicological data on the product or its components. Users who require this information are referred to primary suppliers of the ingredients of interest.

SECTION II - COMPOSITION AND INFORMATION ON INGREDIENTS

Component Name	CAS No.	Concentration
Polydimethylsiloxane	83148-62-9	> 70%
Fumed Silica	112945-52-5	< 20%
Polytetrafluoroethylene	9002-84-0	< 5%

SECTION III - HAZARDS IDENTIFICATION

OSHA Hazard Classification: No warning statements required.
Routes of Entry: Inhalation, skin contact, ingestion
Chemical Interactions: Avoid contact with all oxidizing agents, strong acids and bases.

SECTION IV - FIRST AID & EFFECTS OF OVEREXPOSURE

Inhalation: Not an expected route of entry. Remove individual to fresh air. If not breathing, give artificial respiration or oxygen as appropriate. Keep patient warm. Seek immediate medical advice. Overexposure may cause irritation of the mucous membranes and respiratory tract.

Skin Contact: Flush skin thoroughly with soap and water. Rinse thoroughly. Seek medical advice if contact was extensive and irritation develops. Overexposure: extended periods of contact with skin can lead to irritation and dermatitis.

Eyes: Immediately flush eyes with plenty of water while holding eyelids apart. Seek immediate medical advice. Exposure to eyes may cause redness, irritation, discomfort or tearing.

Ingestion: Do not induce vomiting. Seek immediate medical advice. Never give anything by mouth to an unconscious person. Symptoms may include: headache, dizziness, nausea, intestinal disorders and unconsciousness. Not an expected route of entry. Ingestion may cause abdominal pains, cramping, nausea and vomiting.

SECTION V - FIRE FIGHTING MEASURES

Flammability Summary: Heavy grease • Flash Point: 526°F / 275°C
Fire/Explosion Hazards: This material is not considered a potential fire and explosion hazard under normal operating conditions.
Extinguishing Media: Foam, dry chemical or CO₂. Water spray may be used to cool containers. Do not allow contaminated water to enter sewers or waterways.

SECTION V - FIRE FIGHTING MEASURES (continued)

Fire Fighting Instructions: In case of fire, use normal fire fighting equipment including a NIOSH approved self-contained breathing apparatus (SCBA). Use water to cool containers.

Hazardous Combustion Products: Under fire conditions: formaldehyde

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Protection for
Emergency Situations: Evacuate the area of all unnecessary personnel. Eliminate any ignition sources until the area is determined to be free from explosion and fire hazards. Contain the release and eliminate its source if this can be done safely. Wear protective clothing. Keep unprotected persons away from spill.

Spill Mitigation Procedures

Air Release: Low volatility makes this hazard unlikely. Provide adequate ventilation. Keep away from ignition sources.

Water Release: Contain all liquid for treatment and/or disposal as a (potential) hazardous waste. Notify all downstream users of possible contamination. Keep away from ignition sources. Do not flush to sewer! US regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of stipulated quantities. US Coast Guard National Response Center is 800-424-8802.

Land Release: Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container. Decontaminate all clothing and the spill area using a detergent and flush with large amounts of water. Contain all contaminated water for disposal and/or treatment.

Additional Spill information: Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section XII, Disposal Considerations.

SECTION VII - HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash with soap and water.

Storage: Keep container tightly closed. Store in a cool area away from ignition sources and oxidizers. No special precautions need be taken if product is handled according to directions.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally NOT necessary when handling or using this product. General exhaust ventilation is usually sufficient for general worker safety and comfort. Explosion proof motors and fans are not required for unheated handling.

Respirator Type(s): Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Skin: Wear impervious gloves (butyl rubber, Viton, e.g.) to avoid skin contact. Follow good industrial hygiene practices.

Eyes: Use chemical safety glasses with side shields, safety goggles and/or a full face shield where splashing is possible.

Protective Clothing Type: Impervious

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Grease	Octanol/Water Coefficient:	No data
Color:	White	Water Solubility:	Insoluble
Odor:	Odorless	Bulk Density:	NA
Molecular Weight:	Not applicable to mixtures	Specific Gravity (68°F):	0.88
pH (@25°C):	NA	Vapor Density (Air=1):	No Data

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES (continued)

Explosive Limits: No data. Low volatility makes ambient explosive vapor concentrations impossible. Vapor Pressure (@ 20°C): < 1
Evaporation Rate (Estimated): < 1
Flash Point, (TCC, Deg.F)
(Estimated): 526°F/275°C
Volatiles % by vol.: Negligible
Approximate Boiling Point (Deg.F) NA

SECTION X - STABILITY AND REACTIVITY

Stability and Reactivity

Summary: Stable under normal conditions

Reactive Properties:

Sensitivity to mechanical shock: None

Hazardous Polymerization: Will not occur

Conditions to Avoid: Ignition sources, open flames.

Chemical Incompatibility: Strong acids or bases.

Incompatible materials: No data available

Hazardous Decomposition

Products: Decomposition type: oxidative/thermal: formaldehyde

Decomposition Temperature: No data

Product May Be Unstable At

Temperatures Above: No data

SECTION XI - TOXICOLOGICAL INFORMATION

Component Animal Toxicology:

Oral LD50 value: No data

Dermal LD50 value: No data

Inhalation LC50 value: No data

Product Animal Toxicity: No data

Skin Irritation: This material is expected to be slightly irritating to the skin and mucous membranes.

Eye Irritation: This material is expected to be irritating.

Reproductive and

Developmental Toxicity: No reproductive or developmental risk to humans is expected from exposure to this product.

Component Data: All data refer to finished product

Mutagenicity: Not known or reported to be mutagenic.

Carcinogenicity: This chemical is not known or reported to be carcinogenic by any reference source including IARC, EPA, OSHA, NTP, or ACGIH.

SECTION XII - ECOLOGICAL INFORMATION

Ecological Toxicity Values: Do not allow this material to be released to the environment without appropriate governmental permits.

Environmental Fate: No information found

Environmental Toxicity: No information found

SECTION XIII - DISPOSAL CONSIDERATIONS

Consult current local, state and national regulations to ensure proper disposal.

Waste Disposal Summary: Product as made does not qualify as an "Unlisted Hazardous Waste" for disposal situations.

Disposal Methods: Dispose of in accordance with local, state and federal regulations for hazardous waste.

SECTION XIV - TRANSPORTATION INFORMATION	
Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, Emergency Response Guide Number	Not regulated
Labels required per 49 CFR 172.101	None
Size for "Limited quantity" per 49 CFR 173.150-.155	NA
Reportable Quantity ("RQ") per 49 CFR 172.101	None
Air (IATA/ICAO) : Passenger & Cargo	NA
Effective Jan. 1, 2001 Cargo only	NA
Special Provisions	NA
Emergency Response Group Code	NA

SECTION XV - REGULATORY INFORMATION
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United States:

Toxic Substance Control Act: The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

Superfund Amendments and Reauthorization Act

(SARA) Title III: See Section III of this MSDS.

Safety Phrases: Keep container tightly closed in a well ventilated area, away from sources of ignition. No smoking. Do not breathe gas, fumes, vapor or spray from this product. Do not empty into drains.

State Right-to-Know Regulations Status of Ingredients:

Pennsylvania: No Information

New Jersey: No Information

Massachusetts: No Information

Hazard Category Classifications and Ratings:

HMIS Hazard Ratings: Health 1, Fire 1, Instability 0, Other B (Goggles, gloves)

NFPA 704 Hazard Ratings: Health 1, Flammability 1, Reactivity 0, Special NA

Hazard Ratings: Least: 0, Slight: 1, Moderate: 2, High: 3, Extreme: 4

SECTION XV - REGULATORY INFORMATION
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This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard, 29 CFR 1910.1200. The information in this MSDS should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. We believe this information to be reliable and up to date as of its publication date, but make no warranty that it is. If this MSDS is more than three years old you should contact the supplier to make certain that the information is current.

The information contained in this MSDS was obtained from sources which we believe to be reliable. However, the information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge, for this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.