



November 01, 2005

The X-1R Corporation

Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Penn Precision Reel Grease

MANUFACTURER: The X-1R Corporation
ADDRESS: 375 Fentress Blvd. Daytona Beach, FL 32114

PRODUCT INFORMATION: 1-386-271-7000
EMERGENCY PHONE: 1-800-424-9300 (Inside U.S.)
1-703-527-3887 (Outside U.S.)
FAX: 1-386-271-7001

CHEMICAL NAME: Not Applicable
CHEMICAL FAMILY: Lubricating Grease
CHEMICAL FORMULA: Proprietary

PRODUCT USE: Penn Precision Reel Grease is used to provide lubrication to reduce wear and friction and also provides outstanding rust protection.

APPROVED BY: J. A. Ketchledge

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>EXPOSURE LIMITES</u>
Proprietary Mixture	Proprietary	N.A.

This Product is Non-Hazardous. This product contains no known carcinogens. No special warning labels are required under OSHA 29 CFR 1910.1200.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Blue-Smooth-textured semi-solid paste with mild petroleum odor. (See Section 9). Avoid contact with eyes and excessive contact with skin (See Section 3 below). Avoid contact with oxidizing agents. Protect against decomposition products of oxides of carbon, oxides of sulfur and oxides of calcium.

HMIS RATING: **HEALTH:** 1 **FLAMMABILITY:** 1 **REACTIVITY:** 0 **PPE:** -

ROUTES OF ENTRY: Skin contact.

POTENTIAL HEALTH EFFECTS:

EYES: May cause eye irritation

SKIN: May cause mild skin irritation.

INGESTION: No hazard in normal industrial use.

INHALATION: No hazard in normal industrial use.

ACUTE HEALTH HAZARDS: None Known.

CHRONIC HEALTH HAZARDS: It contains no known carcinogens or mutagens as defined by OSHA or IARC.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known.

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention immediately.

SKIN: Wash thoroughly with warm water using a mild soap. If hot material contacts skin, immediately cool before attempting removal. If irritation persists or if contact has been prolonged, obtain medical attention. If high pressure forces the product under the skin, get immediate medical attention.

INGESTION: Obtain Medical Attention. Never give anything by mouth to an unconscious person. Not expected to be toxic by ingestion.

INHALATION: Remove to fresh air. Aspiration may cause pulmonary edema or aspiration pneumonia. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention if symptoms persist.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: **Flash Point:** > 350 °F (> 180 °C) **Method:** Open Cup
Burn Rate: Unknown

FLAMMABLE LIMITS: Lower Flammable Limit: Not Established.
Upper Flammable Limit: Not Established.

FLAMMABILITY CLASSIFICATION: Not Established.

AUTOIGNITION TEMPERATURE: Not Determined

HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide and Carbon Dioxide if incomplete combustion,
Oxides of sulfur, Oxides of calcium.

EXTINGUISHING MEDIA: Carbon dioxide (CO₂); Dry Chemical; Dry Sand; Vermiculite; Water Fog; Foam

ADDITIONAL CONSIDERATIONS: None.

SPECIAL FIRE FIGHTING INSTRUCTIONS: Oil will float on water and can spread fire.

NFPA RATING:

HEALTH: 1 **FLAMMABILITY:** 1 **REACTIVITY:** 0 **PROTECTIVE EQUIPMENT:** -

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION: Wear suitable protective equipment.

ENVIRONMENTAL PRECAUTIONS: Prevent from entering sewer system or surface water.

METHODS FOR CLEANING UP: Stop the leak if it can be done without risk.

Large Spill: Dike area of spill to prevent spreading and pump liquid to salvage tank.

Small Spill: Soak up with absorbent material.

Transfer absorbent material to a suitable waste container.
Dispose according to regulatory requirements.

SECTION 7: HANDLING AND STORAGE

HANDLING: Keep drums tightly closed to prevent contamination. Avoid contact with eyes, skin and clothing.
Wear recommended personal protective equipment.
Electrically bond and ground all containers and equipment.

STORAGE: Normal precautions common to good safety practice should be followed in storage.

INCOMPATIBLE MATERIALS: Strong oxidizers.

VENTILATION: Use with adequate ventilation. Use good engineering practices to establish ventilation.

SPECIAL PACKAGING MATERIALS: Not applicable

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: For normal applications, special ventilation is not necessary. Local Ventilation is needed in the presence of airborne mists.

EYE / FACE PROTECTION: Monogoggles. Face shield if the risk of splashing.

HAND PROTECTION/PROTECTIVE GLOVES: Wear oil resistant gloves.

SKIN PROTECTION: Wear protective clothing such as long sleeves to minimize the skin contact.
Use heat protective equipment (such as gloves, long sleeves and aprons) when handling molten material.

RESPIRATORY PROTECTION: None required in normal use. NIOSH approved respirator with dual organic vapor/mist and particulates cartridge if vapor concentration exceeds permissible exposure limit.

INDUTRIAL HYGINE MEASURES: Do not eat or drink at work.

EXPOSURE GUIDELINES: (See Section 2).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Blue Smooth Texture
ODOR:	Mild Petroleum
PHYSICAL STATE:	Semi Solid Paste
pH:	Not Applicable
BOILING POINT:	Not Available
MELTING POINT:	Not Available
FREEZING POINT:	Not Available
MOLECULAR WEIGHT:	Not Available
VAPOR PRESSURE:	< 0.0008 kPa (0.00 mm Hg) at 20 °C
VAPOR DENSITY (AIR = 1):	Not Available
% VOLATILES BY VOLUME:	Not Available
EVAPORATION RATE:	Not Available
DENSITY:	0.95 –1.05 g/cm ³ @ 25 °C
SOLUBILITY IN WATER:	Negligible
PARTITIONING COEFFICIENT:	Not Available

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal ambient and anticipated storage and handling conditions

CONDITIONS TO AVOID: Open flames.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of carbon, oxides of calcium, oxides of sulfur.

HAZARDOUS POLYMERIZATION: Will Not Occur.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE EFFECTS: May cause eye irritation

SKIN EFFECTS: May cause skin irritation. If high pressure forces the product under the skin, get immediate medical attention.

INGESTION EFFECTS: No data available. May cause diarrhea.

INHALATION EFFECTS: No data available. Mist or spray may cause following effects: Delayed onset of pulmonary edema.

SUBCHRONIC EFFECTS: No data

CHRONIC EFFECTS/CARCINOGENICITY: No data.

EPIDEMIOLOGY: No data

TERATOLOGY: No data

REPRODUCTIVE EFFECTS: No data

NEUROTOXICITY: No data

MUTAGENICITY: No data

SYNERGISTIC PRODUCTS: No data

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No data available. This product is stable in water and can be mechanically separated from water. The water may be suitable for disposal in a biological wastewater treatment plant.

ENVIRONMENTAL FATE: No data

PHYSICAL/CHEMICAL: (See Sections 9 and 10)

SECTION 13: DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Dispose of in accordance with appropriate federal, State and local regulations. Incinerate in a furnace permitted under appropriate Federal, State and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT SHIPPING NAME:	This product is not regulated by DOT.
DOT HAZARD CLASS/DESCRIPTION:	Fright Description Road: Class 65, Lubricants/Additives
DOT LABEL:	Not applicable
DOT PLACARD:	Not applicable
DOT UN/NA NUMBER:	Not applicable
DOT PACKING GROUP:	Not applicable
DOT PRODUCT RQ:	Not applicable
IMO CLASSIFICATION:	Not available
EEC CLASSIFICATION:	Not available
EEC LABEL:	Not available
EEC R:	Not available
EEC S:	Not available
TRANSPORT CANADA PIN:	Not available

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA: All components appears in TSCA Inventory

OSHA: None

CERCLA SARA HAZARD CATEGORY:

SECTION 311 AND 312: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: None

SECTION 313: This product contains no substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: None

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): Additional information available upon request.

EINECS: Additional information available upon request.

STATE REGULATIONS: No specific listing in California or New Jersey. Additional information available upon request.

SECTION 16: OTHER INFORMATION

The information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of The X-1R Corporation. The Data on this sheet related only to the specific material designed herein. The X-1R Corporation assumes no legal responsibility for the use or reliance on this data.

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