

**PRECISION SURFACES INTERNATIONAL, INC.**

922 Ashland Houston, TX 77008-6734

713-426-2220 Fax: 713-426-2223

**MATERIAL SAFETY DATA SHEET**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION					
Supplier:		Precision Surfaces International, Inc.			
		922 Ashland, Houston, Texas 77008-6734			
Emergency Telephone:		Infotrac: 800-535-5053			
Product Name:		Blue Diamond Lubricant			
Description:		Diamond Lubricant, Blue			
PSI Part Number:		PSI-544-1 or 4			
2. COMPOSITION/INFORMATION ON INGREDIENTS					
Name:		CAS Number:	Percent:	OSHA PEL:	ACGIH TLV:
Water		7732-16-5	30 - 70	None	None
Isopropyl Alcohol		67-63-0	1 – 10	400 ppm	200 ppm
Hydroxy Glycol		N/A	20 - 50	10 mg/m3	10 mg/m3
3. HAZARDS IDENTIFICATION					
Potential Health Effects:					
	Eye:	May cause severe irritation.			
	Skin:	Repeated or prolonged skin contact may cause irritation and dermatitis.			
	Ingestion:	May cause gastrointestinal irritation. Nausea and vomiting may occur.			
	Inhalation:	Vapor mist may irritate nose and throat. May cause dizziness when exposed to prolonged and repeated inhalation. Respiratory tract irritation and/or headache possible.			
	Primary Route(s) of Entry:	Inhalation at high temperatures, eye contact, skin contact.			
	Target Organs:	Respiratory passages at high temperatures, eyes, skin.			
Chronic Health Effects/Carcinogenicity:					
	NTP:	NA			
	OSHA:	NA			
	IARC:	NA			

Medical Restrictions:		Individuals with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of chemical.
4. FIRST AID MEASURES		
Eyes:		Flush thoroughly with water for at least 15 minutes. Get immediate medical attention,
Skin:		Remove contaminated clothing and shoes. Wash exposed area with soap and water. Get medical attention if symptoms persist.
Ingestion:		Get immediate medical attention. Do not induce vomiting unless instructed to do so by a physician. Give large quantities of water or milk.
Inhalation:		If symptoms develop, remove affected person from source of exposure into fresh air. Get immediate medical attention. If person is not breathing, give artificial respiration. If breathing is difficult, administer oxygen if available.
5. FIRE FIGHTING MEASURES		
Fire Fighting:		Wear NIOSH approved positive pressure self-contained breathing apparatus with full protective clothing. Do not release runoff from fire control methods to sewers or waterways. Water in a straight hose stream may cause fire to spread and should be used as a cooling medium only. Fire may produce toxic thermal decomposition products. Wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.
Extinguishing Media:		CO2, Foam, Dry Chemical, Water Fog
Hazardous Combustion Products:		Keep ignition sources, open flames, etc., away from the fumes. Do not use welding or cutting torches or near drum (even empty), product can ignite.
Flash Point:		75° F or 23° C (est.)
Lower Flammable Limit:		2.0
Upper Flammable Limit:		12.7 Listed Flammable Limit data is for Pure Isopropyl Alcohol. This product only contains less than 10% Isopropyl Alcohol.
Autoignition:		NA
Explosion Data:		NA
	Impact Sensitivity:	NA
	Static Discharge:	NA
6. ACCIDENTAL RELEASE MEASURES		
Cleanup:		Absorb spilled liquid with non-reactive absorbent material. Place clean-up material in appropriate disposal containers and dispose of according to local, state and federal requirements.

Small Spills:	Isolate area and deny entry. Ventilate area of leak or spill. Small spill can be picked up with vermiculite or other absorbent, noncombustible material. Contain liquid to prevent further contamination of soil, surface water or groundwater. Where feasible and appropriate, remove contaminated soil. Extinguish all ignition sources and ventilate area. Blanket spill with alcohol resistant foam to limit evaporation. Liquid may be flammable even when mixed with water unless heavily diluted (>5:1). Do not flush into sewers or natural waterways.
Large Spills:	Notify appropriate personnel and implement facility emergency response plan. Evacuate nonessential personnel, isolate area, and provide maximum ventilation. Cleanup personnel should wear fully protective equipment for vapor inhalation and skin and eye contact. Extinguish all ignition sources and ventilate area,
Containment:	For large spills, dike far ahead of liquid spill for later disposal. Do not release directly into sewer or waterways. Wash walking surfaces thoroughly to reduce slipping hazard.
Regulatory Requirement:	Any release to the environment of this product may be subject to federal, state, and/or local reporting requirements. Check with appropriate agencies.

## 7. HANDLING AND STORAGE

Handling:	Exercise ordinary care in handling industrial lubricants. Avoid contamination of cigarettes or other tobacco products. Wash hands thoroughly before eating or smoking. Remove contaminated clothing and wash before reuse. Do not pressurize, cut, weld, braze, solder, drill grind or expose such empty containers to heat, flame, sparks, static electricity, or other sources of ignition. Empty containers should be completely drained, properly closed, and promptly disposed of. Avoid contaminating soil or releasing into sewage and drainage systems or bodies of water. Users should be alert to the possibility that very small percentages of the population may display unexpected allergic reactions to otherwise innocuous industrial lubricants and raw materials.
Storage:	Do not store in open or unlabeled containers. Store in well ventilated, properly drained/contained site, away from heat, ignition source, out of the sun, and away from combustibles and reactive chemicals. Only use approved containers and protect containers from damage and keep material from freezing.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	See Section 2.
Ventilation:	Local ventilation is generally not necessary under normal conditions of use with adequate general ventilation. Ventilation and other forms of engineering controls are the preferred means for controlling chemical exposures. If user operations generate a mist, determine if airborne concentrations are below the recommended exposure limits. If not wear a NIOSH approved respirator.

Respiratory Protection:	Avoid breathing in mist. Respiratory protection is recommended. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Eye Protection:	Avoid eye contact. Wear safety glasses or chemical goggles in accordance with OSHA 29 CFR 1910.133.
Skin Protection:	Avoid skin contact. Wear chemical protective gloves, Depending upon conditions of use, additional protection may be necessary such as a face shield, apron, etc.
Safety Stations:	Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
Other Precautionary Information:	Never eat, drink, or smoke in work areas. Practice good personnel hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Clear Liquid
Color:	Blue
Odor:	Alcohol odor
Specific Gravity:	0.95 – 1.05 (H <sub>2</sub> O = 1, 15 20° C)
Vapor Pressure:	>10 mmHg at 20° C
Vapor Density:	>1.0 (Air = 1)
Evaporation Rate:	N/A
% Volatile:	90 - 95
Boiling Point:	>120° C
Melting Point:	<10° C
Organic Solvent Solubility:	Partially
Liquid Density:	N/A
Solubility in Water:	Completely
pH:	N/A
Solidification Point:	N/A
Ignition Temperature:	N/A

#### 10. STABILITY AND REACTIVITY

Stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Polymerization:	This product will not undergo hazardous polymerization.

Chemical Incompatibilities:	Strong oxidizing materials, hypochlorites, chlorine. This material may be sensitive to peroxide formation.
Hazardous Decomposition Products:	Steam, CO <sub>2</sub> , CO and unidentified organic compounds in fumes and smoke may be formed during combustion.
Conditions to be Avoided:	Strong acids and bases. Exposure to excessive heat, open flames and sparks. Avoid conditions that favor the formation of excessive mists and/or fumes.
11. TOXICOLOGICAL INFORMATION	
Data:	<p><b>Eye Effect:</b> Eye irritant</p> <p><b>Skin Effect:</b> Prolonged exposure may cause irritation and redness. Draize test, rabbit, skin: 12 mg.24H Moderate.</p> <p><b>Reproductive:</b> Not reported</p> <p><b>Ingestion Effects:</b> Oral, rat: LD<sub>50</sub> = 5045 mg/kg;&lt;BR</p> <p><b>Acute Inhalation Effects:</b> Headache, nausea, irritation to the nose and throat. Inhalation, rat: LC<sub>50</sub> = 16000 ppm/8H</p> <p><b>Acute Oral Effects:</b> N/A</p> <p><b>Chronic Effects:</b> Not established</p> <p><b>Carcinogenicity:</b> Not reported</p> <p><b>Mutagenicity:</b> Not reported</p> <p><b>Teratogenicity:</b> Not reported</p>
12. ECOLOGICAL INFORMATION	
Data:	<p><b>Ecotoxicity:</b> Not available</p> <p><b>Soil Absorption/Mobility:</b> Not available</p> <p><b>Degradability:</b> This material is partially biodegradable</p> <p><b>Environmental Fate and Effects:</b> Not available</p>
13. DISPOSAL INFORMATION	
RCRA Hazardous Waste:	NA
Waste Disposal:	<p><b>Disposal:</b> Contact a licensed waste-disposal contractor for detailed recommendations. Follow applicable federal, state, and/or local regulations. Consult an oil collection services for disposal.</p> <p><b>Container Disposal:</b> Rinse three times with an appropriate solvent or water. Dispose or recycle the empty container. Contact local environmental or health authorities for approved disposal or recycling methods.</p> <p><b>Disposal Regulatory Requirements:</b> Many states classify waste lubricants as "hazardous", which means disposal only by a licensed firm. Follow applicable federal, state, and local regulations.</p>
14. TRANSPORTATION INFORMATION	
DOT Hazard Class:	NA
Proper Shipping Name:	NA
Identification Number:	NA

15. REGULATORY INFORMATION		
Federal EPA:		
	SARA 311/312 Hazard Class (40 CFR 370):	Immediate (acute) Health Hazard: No Sudden Release of Pressure Hazard: No Reactive Hazard: No Delayed (Chronic) Health Hazard: No Fire Hazard: yes
	SARA 313 Toxic Chemicals (40 CFR 372.65):	No ingredients listed.
	TSCA:	All components of this product are listed on the TSCA inventory. <b>EPA Regulations:</b> CAS# 67-63-0 is listed on Canada's Ingredient Disclosure List. CAS# 67-63-0 is listed on Canada's DSL List.
	OSHA Regulations:	Air contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Isopropyl Alcohol
State Right-to-Know:		
	California-65:	NA
	Florida:	NA
	Massachusetts:	NA
	New Jersey:	NA
	Pennsylvania:	NA
16. OTHER		
The above information and recommendation are believed to be accurate and reliable. However, no warranty, either expressed or implied, is made as to its accuracy or completeness and none is made as to fitness of this material for any purpose. The manufacturer or supplier shall not be liable for damages to person or property resulting from its use. Nothing herein shall be construed as a recommendation for use in violation of any patent.		

NA = Not Applicable

**Manufacturer Issue Date: 04/12/12**

**Supplier Last Reviewed: 06/28/11**