

## 222 Readily Biodegradable, Industrial ISO 220 Gear Oil

### Section 1 Chemical Product and Company Information

RSC Bio Solutions  
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PRODUCT TRADE NAME: EnviroLogic® 222  
CAS NO: Not applicable for mixtures.  
SYNONYMS: None.  
GENERIC/CHEMICAL NAME: Mixture.  
PRODUCT TYPE: Biodegradable Gear Oil  
PREPARATION/REVISION DATE: 01/17/2014  
TRANSPORTATION EMERGENCY PH NO: 1-800-661-3558

### Section 2 Hazards Identification

PRINCIPAL HAZARDS: This material has no known hazards.  
ODOR: Mild.  
APPEARANCE: Clear, golden liquid.  
TARGET ORGANS:

See Section 11 for complete health hazard information.

### Section 3 Composition/Information On Ingredients

NAME: Proprietary information.

This material has no known hazards under applicable laws.

### Section 4 First Aid Measures

ORAL: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.  
EYE: Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.  
SKIN: Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.  
INHALATION: Remove exposed person to fresh air if adverse effects are observed.  
ADDITIONAL: Note to physician: Treat symptomatically.

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### Section 5 Firefighting Measures

FLASH POINT (Typical): 185°C, 365°F (Typical) (COC)

EXTINGUISHING MEDIA: CO<sub>2</sub>, dry chemical, or foam. Water can be used to cool and protect exposed material.

### Section 6 Accidental Release Measures

SPILL PROCEDURES: Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

### Section 7 Handling and Storage

HANDLING PROCEDURES: Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.

MAXIMUM HANDLING TEMPERATURE: 80°C, 176°F

MAXIMUM STORAGE TEMPERATURE: 45°C, 113°F

MAXIMUM LOADING TEMPERATURE: 60°C, 140°F

STORAGE PROCEDURES: Store inside in a cool, dry and well ventilated location that is free of contaminants. Do not allow product to freeze or store at maximum storage temperature for extended periods of time.

### Section 8 Exposure Controls/Personal Protection

VENTILATION PROCEDURE: Use with adequate ventilation.

GLOVES PROTECTION: Use nitrile or neoprene gloves.

EYE PROTECTION: Safety Glasses.

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RESPIRATORY PROTECTION:	Under normal use conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded.
CLOTHING RECOMMENDATION:	Long sleeve shirt is recommended.
EXPOSURE LIMIT:	None established.
OTHER EXPOSURE LIMITS:	Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH TWA of 5 mg per cubic meter.
ENGINEERING CONTROLS:	Use with adequate ventilation.

### Section 9 Physical And Chemical Properties

VAPOR PRESSURE:	Not determined.
FLASH POINT:	185°C, 365°F
AUTOIGNITION TEMPERATURE:	Not determined.
VOC:	Not determined.
POUR POINT:	-36°C, -33°F
PH:	Not determined.
SPECIFIC GRAVITY:	0.85 at 15.6°C
WATER SOLUBILITY:	Insoluble.
PERCENT VOLATILE:	Unknown.
VAPOR DENSITY:	Not determined.
EVAPORATION RATE:	Not determined.
ODOR:	Mild
APPEARANCE:	Clear, golden liquid.
VISCOSITY:	220 Centistokes at 40°C (Typical)
ODOR THRESHOLD:	Unknown.
BOILING POINT:	Not determined.

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FREEZING POINT: < -36°C, < -33°F

MOLECULAR WEIGHT: Not determined.

### Section 10 Stability And Reactivity

STABILITY: Material is normally stable at moderately elevated temperatures and pressures.

INCOMPATIBILITY: Oxidizing agents.

DECOMPOSITION TEMPERATURE: Not determined.

POLYMERIZATION: Will not occur.

THERMAL DECOMPOSITION: Smoke, carbon monoxide, aldehydes and other products of incomplete combustion.

CONDITIONS TO AVOID: Not determined.

### Section 11 Toxicological Information

- ACUTE EXPOSURE -  
ORAL TOXICITY: The LD50 in rats is > 10,000 mg/Kg. Based on data from components or similar materials.

EYE IRRITATION: Not expected to cause eye irritation. Based on data from components or similar materials.

SKIN IRRITATION: Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

DERMAL TOXICITY: The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.

INHALATION TOXICITY: No data available to indicate product or components may be a toxic inhalation hazard.

RESPIRATORY IRRITATION: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.

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DERMAL SENSITIZATION:	No data available to indicate product or components may be a skin sensitizer.
INHALATION SENSITIZATION:	No data available to indicate product or components may be respiratory sensitizers.
CHRONIC TOXICITY:	- CHRONIC EXPOSURE - No data available to indicate product or components present at greater than 1% are chronic health hazards.
CARCINOGENICITY:	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
MUTAGENICITY:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
REPRODUCTIVE TOXICITY:	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
TERATOGENICITY:	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.
OTHER:	- ADDITIONAL INFORMATION - No other health hazards known.
EXPOSURE LIMITS:	EXPOSURE LIMITS: Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

### Section 12 Ecological Information

SALTWATER INVERTEBRATES TOXICITY:	Not determined.
FRESHWATER FISH TOXICITY:	> 1000 mg/L for minnows as per OECD 203 test method.
FRESHWATER INVERTEBRATES TOXICITY:	> 130 mg/L for daphnia as per OECD 202 test method.
ALGAE TOXICITY:	> 120 mg/L as per OECD 201 test method.
BACTERIA TOXICITY:	Not determined.
BIODEGRADATION:	- ENVIRONMENTAL FATE - Product shows a biodegradability of > 60% as measured by ASTM D7373 test.
BIOACCUMULATION:	Product has no potential for bioaccumulation.

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SOIL MOBILITY: Not determined.

### Section 13 Disposal Considerations

WASTE DISPOSAL: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. Waste management should be in compliance with federal, state, and local laws.

### Section 14 Transport Information

U.S.DOT BULK SHIPPING DESCRIPTION: Not applicable.

U.S.DOT NON-BULK SHIPPING DESCRIPTION: Not applicable.  
IMDG SHIPPING DESCRIPTION: Not applicable.

ICAO SHIPPING DESCRIPTION: Not applicable.

ADR/RID HAZARD CLASS: Not applicable.

### Section 15 Regulatory Information

U.S. TSCA  
INVENTORY: All components of this material are on the US TSCA Inventory OR are exempt.

SARA EXT. HAZ.  
SUBST.: This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

SARA SECTION  
313: This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

CERCLA  
HAZARDOUS  
SUBSTANCES: None known.

CAL. PROP. 65: This product does not contain chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components. < 0.1 ppm of the following: Cadmium, Lead, Arsenic and Benzene.

U.S. FUEL  
REGISTRATION: Not applicable.

U.S. DEPT. OF  
AGRICULTURE: This product has not been filed with the USDA to support H2 approvals.

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FDA APPROVAL:	Not applicable.
EEC EINECS:	All components are in compliance with the EC Seventh amendment Directive 92/32/EEC.
JAPAN MITI:	All components are in compliance with the Chemical Substances Control Law of Japan.
AUSTRALIA:	All components are in compliance with chemical notification requirements in Australia.
CANADA:	All components are in compliance with the Canadian Environmental Protection Act.
AUSTRIA:	All components are in compliance with the Austrian Chemical Laws.
EU:	All components are in compliance with the EC Seventh amendment Directive 92/32/EEC.
TAIWAN:	All components of this product are on the Taiwan inventory.
KOREA:	All components are in compliance in Korea.
PHILIPPINES:	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990.
CHINA:	All components are listed on the Inventory of Existing Chemical Substances in China.

### Section 16 Other Information

NFPA CODE:	Health: 1	Fire: 1	Reactivity: 0
HMIS CODE:	Health: 1	Fire: 1	Reactivity: 0

PRECAUTIONARY LABELS: This material has no known hazards.

While RSC Bio Solutions believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.