WHMIS/US OSHA Material Safety Data Sheet for:

Unirex EP2 Grease

Section 1: MANUFACTURER/PREPARER INFORMATION & HAZARD WARNINGS

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WHMIS HAZARD SYMBOLS & DEFINITIONS

NOT A CONTROLLED PRODUCT

Section 2: HEALTH HAZARD DATA

ROUTES OF ENTRY/SIGNS & SYMPTOMS OF ACUTE EXPOSURE:

EYES: Slightly irritating, but will not injure eye tissue. **SKIN:** Low toxicity. Frequent or prolonged contact may irritate the skin. High pressure greasing equipment is capable of injecting grease under the skin which may have severe health consequences. **INHALATION:** Negligible hazard at normal temperatures (up to 38°C). Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes, nose, throat and lungs. Avoid breathing vapours or mists. **INGESTION:** Low toxicity.

Chronic Effects: N/R. **Carcinogens:** N/R. **Medical Conditions Aggravated by Exposure:** N/R.

EMERGENCY & FIRST AID PROCEDURES:

EYES: Flush with large amounts of water until irritation subsides. If irritation persists, get medical attention. **SKIN:** Flush with large amounts of water. Use soap if available. Remove severely contaminated clothing (including shoes) and launder before reuse. Consult a physician immediately if the material is injected under the skin from the misuse of high pressure greasing equipment. **INHALATION:** Vapour pressure of this material is low and as such inhalation under normal conditions is usually not a problem. If overexposed to oil mist, remove from further exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention. **INGESTION:** If swallowed, DO NOT INDUCE VOMITING. Keep at rest. Seek prompt medical attention.

Section 3: PREVENTATIVE MEASURES

Respiratory Protection: Where concentrations in air may exceed the occupational exposure limits given in Section 4 and where engineering, work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.

Ventilation: The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a lab hood. Provide mechanical ventilation of confined spaces.

Skin/Eyes: Where prolonged and/or repeated skin and eye contact is likely to occur, wear safety glasses with side shields, long sleeves, and chemical resistant gloves. Where eye contact is unlikely, but may occur as a result of short and/or periodic exposures, wear safety glasses with side shields. **Other Protective Measures:** Where prolonged and/or repeated skin contact is likely, wear long sleeves. Selection of personal protective equipment varies depending upon conditions of use.

Work/Hygienic Practices: N/R

Handling and Storing: Keep containers closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. In keeping with good personal hygiene practices, wash hands thoroughly after handling the material. Do not handle or store near an open flame, sources of heat, or sources of ignition. Empty containers may contain product residue. Do not pressurize cut, heat, or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.

KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS.

N/A=Not Applicable. N/E=Not Evaluated/Established. N/R=Not Reported by Manufacturer.

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Section 4: HAZARDOUS COMPONENTS & EXPOSURE LIMITS

Hazardous Component Name	CAS #	OSHA PEL	ACGIH-TLV	Other Limit	% Wt
No regulated components (Canada)	N/A	N/A	N/A	5 mg/m3 Oil Mist	N/A

§ indicates a toxic chemical subject to the reporting requirements of SARA Title III, Section 313.
† indicates a chemical known to the State of California to cause cancer, birth defects or other reproductive harm per Proposition 65.

Section 5: PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 293°C
Vapor Pressure: <0.01 kPa at 20°C
Vapor Density (Air=1): >5
Solubility in Water: Negligible
Appearance/Odor: Dark green paste, petroleum odour.

Specific Gravity: 0.930 at 15.5°C
Percent Volatile: N/R
Evaporation Rate: <0.01 (1= n-butylacetate)
pH: N/A

Section 6: FIRE & EXPLOSION HAZARD DATA

Flash Point (Method): 199°C (COC ASTM D92) **Flammable Limits. LEL**0.9% **UEL:** 7.0%

Extinguishing Media: Foam, dry chemical or water spray. Use water spray to cool fire exposed surfaces and to protect personnel.

Special Firefighting Procedures: Shut off fuel to fire. Avoid spraying water directly into storage containers due to danger of boilover. A self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a

Unusual Fire and Explosion Hazards: Low Hazard; liquids may burn upon heating to temperatures at or above the flash point. Decomposes; flammable/toxic gases will form at elevated temperatures (thermal decomposition). Toxic gases will form upon combustion. Fumes, smoke, carbon monoxide, sulfur oxides, nitrogen oxides, phosphorus oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Section 7: REACTIVITY DATA

Stability: Stable. **Hazardous Polymerisation:** Will not occur. **Conditions to Avoid/Incompatibility:** Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc., as this presents a serious explosion hazard. **Hazardous Decomposition Products:** Fumes, smoke, carbon monoxide, sulfur oxides, nitrogen oxides, phosphorus oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Section 8: SPILLS, DISPOSAL & ADDITIONAL INFORMATION

Spill/Leak Procedures: Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill. LAND SPILL: Eliminate source of ignition. Keep public away. Prevent additional discharge of material, if possible to do so without hazard. Prevent spills from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use an explosion proof motor or hand pump), or by using a suitable absorbent. WATER SPILL: Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear. Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters.

Waste Disposal: Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

Additional Information: N/A