# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** **No-Tox Food Grade Extreme Pressure Grease 1**

**Product Code** 63110

**Version #** 1.0

**Revision date** 08-23-2011

**Synonym(s)** No-Tox EP Grease 1

**Manufacturer information**

Bel-Ray Company, Inc.
P.O. Box 526
Farmingdale, NJ 07727
United States of America
+1 732 938 2421
CHEMTREC: +1 703-527-3887 (outside USA)
CHEMTREC: 800-424-9300 (USA)

**NSF** Food-grade lubricant. NSF H1 Registered Number 126342.

## 2. Hazards Identification

**Potential health effects**

**Routes of exposure** Inhalation. Ingestion. Skin contact. Eye contact.

**Eyes** Avoid contact with eyes.

**Skin** Avoid contact with the skin.

**Inhalation** Prolonged inhalation may be harmful. Avoid breathing dust/fume/gas/mist/vapors/spray.

**Ingestion** Components of the product may be absorbed into the body by ingestion. Do not ingest.

**Target organs** Eyes. RESPIRATORY SYSTEM. Skin.

**Potential environmental effects** May cause long-term adverse effects in the environment.

## 3. Composition / Information on Ingredients

| Hazardous components | CAS # | Percent |
|---|---|---|
| ZINC OXIDE | 1314-13-2 | 0.5 - 1.5 |
| **Non-hazardous components** | **CAS #** | **Percent** |
| OIL, MINERAL | 8042-47-5 | 60 - 100 |
| Other components below reportable levels | | 10 - 30 |

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Ingestion** Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give liquid to an unconscious person.

**General advice** If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

## 5. Fire Fighting Measures

**Flammable properties** Not flammable by WHMIS criteria.

**Extinguishing media**

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Dry chemicals.

**Unsuitable extinguishing media** Water. Do not use water jet as an extinguisher, as this will spread the fire.

**Fire fighting equipment / instructions** Cool containers exposed to heat with water spray and remove container, if no risk is involved.

**Explosion data**

**Sensitivity to static discharge** Not available.

**Sensitivity to mechanical impact** Not available.

**Hazardous combustion products** Carbon monoxide and carbon dioxide.

## 6. Accidental Release Measures

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not contaminate water.

**Methods for containment** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

**Methods for cleaning up** Should not be released into the environment. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Scrub the area with detergent and water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

## 7. Handling and Storage

**Handling** Avoid prolonged or repeated contact with skin. Use only in well-ventilated areas. Avoid prolonged exposure. Avoid release to the environment.

**Storage** Keep away from heat and sources of ignition.

## 8. Exposure Controls / Personal Protection

**Occupational exposure limits**

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

| Components | Type | Value | Form |
|---|---|---|---|
| OIL, MINERAL (8042-47-5) | TWA | 1 mg/m3 | Mist. |

**Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)**

| Components | Type | Value | Form |
|---|---|---|---|
| OIL, MINERAL (8042-47-5) | STEL | 10 mg/m3 | Mist. |
| | TWA | 5 mg/m3 | Mist. |

**Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)**

| Components | Type | Value | Form |
|---|---|---|---|
| OIL, MINERAL (8042-47-5) | STEL | 10 mg/m3 | Mist. |
| | TWA | 5 mg/m3 | Mist. |

**Engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Personal protective equipment**

**Eye / face protection** Chemical goggles are recommended.

**Skin protection** Wear appropriate chemical resistant clothing.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## 9. Physical & Chemical Properties

| | |
|---|---|
| **Appearance** | Gel. |
| **Physical state** | Liquid. |
| **Form** | Grease |
| **Color** | White. |
| **Odor** | Bland. |
| **Odor threshold** | Not available. |
| **pH** | Not available. |
| **Vapor pressure** | 0 hPa estimated |
| **Density** | 881 kg/m³ |
| **Vapor density** | Not available. |
| **Boiling point** | 680 °F (360 °C) estimated (Base Oil) |
| **Melting point/Freezing point** | Not available. |
| **Solubility (water)** | Negligible |
| **Solubility (other)** | Oil |
| **Specific gravity** | 0.88 |
| **Relative density** | Not available. |
| **Flash point** | 456.8 °F (236 °C) Pensky-Martens Closed Cup (Base Oil) |
| **Flammability limits in air, upper, % by volume** | Not available. |
| **Flammability limits in air, lower, % by volume** | Not available. |
| **Auto-ignition temperature** | 500 °F (260 °C) estimated |
| **VOC** | 0.01 % estimated |
| **Viscosity** | 104 cSt |
| **Percent volatile** | 0.01 % estimated |
| **Other data** | |
| **Drop point** | > 500 °F (> 260 °C) |
| **Flammability class** | Combustible IIIB estimated |
| **Flash point class** | Combustible IIIB |
| **Viscosity temperature** | 104 °F (40 °C) |

## 10. Chemical Stability & Reactivity Information

| | |
|---|---|
| **Chemical stability** | Material is stable under normal conditions. |
| **Conditions to avoid** | Avoid temperatures exceeding the flash point. |
| **Incompatible materials** | Not available. |
| **Hazardous decomposition products** | Hydrogen chloride. Hydrogen cyanide (hydrocyanic acid). At thermal decomposition temperatures, carbon monoxide and carbon dioxide. |

## 11. Toxicological Information

**Toxicological data**

| Product | Test Results |
|---|---|
| No-Tox Food Grade Extreme Pressure Grease 1 (Mixture) | Acute Oral LD50 Mouse: 2883.23 g/kg estimated |
| | Acute Oral LD50 Rabbit: 2883.23 g/kg estimated |
| | Acute Other LD50 Mouse: 192.22 g/kg estimated |

**Chronic effects** Prolonged inhalation may be harmful. Not expected to be hazardous by WHMIS criteria.

**Carcinogenicity**

**IARC Monographs. Overall Evaluation of Carcinogenicity**

OIL, MINERAL (CAS 8042-47-5) 3 Not classifiable as to carcinogenicity to humans.

## 12. Ecological Information

**Ecotoxicological data**

| Product | Test Results |
|---|---|
| No-Tox Food Grade Extreme Pressure Grease 1 (Mixture) | EC50 Daphnia: 13614.46 mg/l 48 hours estimated<br>LC50 Fish: 53468.44 mg/l 96 hours estimated |

* Estimates for product may be based on additional component data not shown.

**Ecotoxicity** Contains a substance which causes risk of hazardous effects to the environment.

**Environmental effects** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Persistence and degradability** Not available.

## 13. Disposal Considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

**TDG**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

## 15. Regulatory Information

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**WHMIS status** Non-controlled

## 16. Other Information

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**
Health: 1*
Flammability: 1
Physical hazard: 0

**NFPA ratings**
Health: 1
Flammability: 1
Instability: 0

**Disclaimer** Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Issue date** 08-23-2011

**This data sheet contains changes from the previous version in section(s):** This document has undergone significant changes and should be reviewed in its entirety.