



# Safety Data Sheet

## Safety Data Sheet

SDS Name: Vacuum Pump Oil

### 1. Identification

**Product Name:** Vacuum Pump Oil

**Catalog Number:** Vacuum Pump Oil

**Supplier Address:** Uniweld Products, Inc.  
2850 Ravenswood Rd.  
Ft. Lauderdale, FL 33324

**Information Phone No.:** (954) 584-2000

**EMERGENCY Phone No.:** Call CHEMTREC day or night within USA and Canada 1-800-424-9300.  
Outside USA and Canada +1 703-527-3887. Collect calls accepted.

**SDS DATE REVISED:** 08.07.2015

### 2. Hazard(s) identification

**This material is not considered to be hazardous according to regulatory guidelines see Section 15. Please see Section 3 and 15 for country specific classification information, and Section 11 for additional details**

#### **HEALTH HAZARDS**

##### **Classification of the substance or mixture**

**Hazard Classification:** Not hazardous.

#### **Label Elements Including Precautionary Statements**

**Symbol:** None.

**Signal Word:** None.

**Hazard Risk Statement:** Not hazardous.

**Precautionary Statement:** Avoid contact with skin and eyes.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**IF ON SKIN:** Wash with plenty of soap and water.

**Other Hazard:** None known.

**Note :** This information is based on test data from similar products. This product is not formulated to contain ingredients which have exposure limits established by regulatory agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage. This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.



### **3. Component Information**

|                                                    |                 |
|----------------------------------------------------|-----------------|
| <b>Substance/mixture</b>                           | Mixture         |
| <b>Other means of identification</b>               | Not available.  |
| <b>CAS number/other identifiers<br/>CAS number</b> | Not applicable. |
| <b>EC number</b>                                   | Mixture         |
| <b>Product code</b>                                | Not Available   |

Hazardous Substance(s) or Complex Substance(s) required for disclosure None Required

| <b>Ingredient Name<br/>Codes</b>        | <b>CAS #</b> | <b>EC #</b> | <b>Concentration*</b> | <b>GHS Hazard</b> |
|-----------------------------------------|--------------|-------------|-----------------------|-------------------|
| Hydrotreated Distillate, Heavy Paraffin | 64742-54-7,  | 265-157-1   | >95%                  | None Required     |
| Proprietary                             |              |             | <0.2%                 | None Required     |

\* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i). If no EU or no CAS numbers are given for classified components the raw material supplier has applied for / will apply for exemption, have not sent the complete information yet, or there could be no obligation to give the EU or CAS numbers.

### **4. First Aid Measures**

|                    |                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b> | Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation. |
| <b>Skin:</b>       | Wash with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops get medical attention.                                                                                                                                                                                                                                  |
| <b>Eye :</b>       | Flush thoroughly with water. If irritation occurs, get medical assistance.                                                                                                                                                                                                                                                                                      |
| <b>Ingestion:</b>  | First aid is normally not required. Seek medical attention if discomfort occurs.                                                                                                                                                                                                                                                                                |

### **5. Firefighting Measures**

#### **EXTINGUISHING MEDIA**

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.  
Inappropriate Extinguishing Media: Straight streams of water

#### **FIRE FIGHTING**

Fire Fighting Instructions: Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.  
Hazardous Combustion Products: Smoke, Fume, Carbon Monoxide, Aldehydes,

#### **FLAMMABILITY PROPERTIES**

|                                                      |                                                                         |
|------------------------------------------------------|-------------------------------------------------------------------------|
| Flash Point ASTM D92 (open cup typical)<br>216 (420) | Flammable Limits<br>(Approximate volume % in air):<br>LEL: N/D UEL: N/D |
|                                                      | Autoignition Temperature: N/D                                           |

## **6. Spill or Leak Handling Procedures**

### **SPILL MANAGEMENT**

#### **Land Spill:**

Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.

#### **Water Spill:**

Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn others of possible slipping hazard if applicable. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

### **ENVIRONMENTAL PRECAUTIONS**

#### **Large Spills:**

Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

## **7. Handling and Storage**

### **HANDLING**

Prevent small spills and leakage to avoid slip hazard.  
Static Accumulator: This material is a static accumulator.

### **STORAGE**

Do not store in open or unlabelled containers.

## **8. Exposure Controls / Personal Protection**

**Exposure limits/standards for materials that can be formed when handling this product: When mists / aerosols can occur, the following are recommended: 5 mg/m<sup>3</sup> - ACGIH TLV, 10 mg/m<sup>3</sup> - ACGIH STEL.**

Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/institute(s)

### **ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation

### **PERSONAL PROTECTION**

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

#### **Respiratory Protection:**

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

#### **Hand Protection:**

Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

|                                  |                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Protection:</b>           | If contact is likely, safety glasses with side shields are recommended.                                                                                                                                                                                                                                                                                       |
| <b>Skin and Body Protection:</b> | Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:<br><br>No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact. |
| <b>Specific Hygiene Measures</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.                                          |
| <b>ENVIRONMENTAL CONTROLS</b>    | See Sections 6, 7, 12, 13.                                                                                                                                                                                                                                                                                                                                    |

## 9. Physical and Chemical Properties

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

| General Information                  |                                | HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION      |                                 |
|--------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------|
| Physical State                       | Liquid                         | Density at 20°C                                    | 0.855 - 0.863                   |
| Color                                | Clear colorless to pale yellow | Flash Point typical °C (°F)                        | >205 (401) See Section 5        |
| Odor                                 | Characteristic                 | Flammable Limits                                   | LEL: N/D UEL: N/D               |
| Odor Threshold                       | ND                             | Autoignition Temperature:<br>Boiling Point °C (°F) | ND<br>>200°C                    |
| <b>OTHER INFORMATION</b>             |                                | Vapor Density (Air=1)                              | NA                              |
| Pour Point °C (°F)                   | -12 (10) or below              | Vapor Pressure                                     | < 0.013 kPa (0.1 mm Hg) at 20°C |
| Freezing Point                       | ND                             | Evaporation Rate (N-Butyl<br>Acetate = 1):         | ND                              |
| Viscosity are +/- 10% cSt at 40°C 46 |                                | Solubility in Water                                | Nil                             |
|                                      |                                | Oxidizing Properties                               | See Sections 3, 15, 16.         |

## 10. Ecological Information

|                                          |                                                      |
|------------------------------------------|------------------------------------------------------|
| <b>STABILITY:</b>                        | Material is stable under normal conditions.          |
| <b>CONDITIONS TO AVOID:</b>              | Excessive heat. High energy sources of ignition.     |
| <b>MATERIALS TO AVOID:</b>               | Strong oxidizers                                     |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> | Material does not decompose at ambient temperatures. |
| <b>HAZARDOUS POLYMERIZATION:</b>         | Will not occur.                                      |

## **11. Toxicological Information**

### **ACUTE TOXICITY**

Potential acute health effects  
Inhalation: No known significant effects or critical hazards.  
Ingestion: No known significant effects or critical hazards.  
Skin contact: No known significant effects or critical hazards.  
Eye contact: No known significant effects or critical hazards.

### **PRODUCT**

#### **Route of Exposure**

##### **INHALATION**

**Toxicity: LC50 > 5000 mg/m3**

**Irritation: No end point data.**

#### **Conclusion / Remarks**

Minimally Toxic. Based on test data for structurally similar materials.  
Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.

##### **INGESTION**

**Toxicity: LD50 > 5000 mg/kg**

Minimally Toxic. Based on test data for structurally similar materials.

##### **Skin**

**Toxicity: LD50 > 5000 mg/kg**

**Irritation: Data available.**

Minimally Toxic. Based on test data for structurally similar materials.  
Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.

##### **Eye**

**Irritation: Data available.**

May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

### **CHRONIC/OTHER EFFECTS**

#### **For the product itself:**

Repeated and/or prolonged exposure may cause irritation to the skin, eyes, or respiratory tract.

#### **Base oil severely refined:**

Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitising in test animals.

### **CARCINOGENIC EFFECTS:**

Contains no carcinogens. Similar compounds essentially non-toxic. No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA), NTP or IARC.

Although there is no specific test data on all the base oil components, the mineral base oil would not be expected to exhibit carcinogenic potential based on what is known of the toxicity of mineral base oils in general.

The DMSO extract by IP 346 of the oil is less than 3%. (Typical 0.2% with Maximum 0.5%) Consequently it is not classified as a carcinogen.

The base oil in this product is severely hydro-treated by all hydro-processing route. By this refining history would be showed no evidence of carcinogenic potential.

### **MUTAGENIC EFFECTS:**

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

### **TERATOGENIC EFFECTS/ DEVELOPMENTAL TOXICITY:**

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

### **REPRODUCTION TOXICITY:**

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.

Additional information is available by request.

## OVER – EXPOSURE SIGNS/SYMPTOMS

|                   |                                                   |
|-------------------|---------------------------------------------------|
| <b>Skin</b>       | No known significant effects or critical hazards. |
| <b>Ingestion</b>  | No known significant effects or critical hazards. |
| <b>Inhalation</b> | No known significant effects or critical hazards. |

## 12. Ecological Information

The information given is based on data available for the material, the components of the material, and similar materials.

|                                      |                                                                                                                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ECOTOXICITY</b>                   | Material -- Not expected to be harmful to aquatic organisms.                                                                                                   |
| <b>MOBILITY</b>                      | Base oil component -- Low solubility and floats and is expected to migrate from water to the land.<br>Expected to partition to sediment and wastewater solids. |
| <b>PERSISTENCE AND DEGRADABILITY</b> |                                                                                                                                                                |
| <b>Biodegradation:</b>               | Base oil component -- Expected to be inherently biodegradable                                                                                                  |
| <b>BIOACCUMULATION POTENTIAL</b>     | Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.  |
| <b>ECOLOGICAL DATA</b>               | Data for Highly Refined Severely Hydrotreated Base oil for similar materials                                                                                   |

| TEST                       | Duration  | Organism Type          | Test Results                                |
|----------------------------|-----------|------------------------|---------------------------------------------|
| Aquatic - Chronic Toxicity | 21 day(s) | Water Flea             | NOELR 1.05 mg/l: data for similar materials |
|                            | 7 days    | Fish                   | NOEC: > 5000mg/L (IUCLID Dataset)           |
|                            | 7 days    | Aquatic Invertebrates, | NOEC: > 5000mg/L (IUCLID Dataset)           |

Care should be taken to minimize release of this product into the environment

|                                    |                                                                     |                                            |                   |
|------------------------------------|---------------------------------------------------------------------|--------------------------------------------|-------------------|
| Environmental Fate & Distribution  | No Data Available                                                   | <b>Other Typical (not a specification)</b> |                   |
| Persistence & Degradation Toxicity | No Data Available                                                   | Acute Toxicity to Fish:                    | No Data Available |
| Effect on Effluent Treatment       | Product may be partially removed in biological treatment processes. | Effect Concentration on Algae:             | No Data Available |
|                                    |                                                                     | Ready Biodegradability:                    | No Data Available |
|                                    |                                                                     | Respiration Inhibition:                    | No Data Available |
|                                    |                                                                     | Adsorption/Desorption:                     | No Data Available |
|                                    |                                                                     | Abiotic Degradability-Hydrolysis :         | Not measurable    |

### 13. Disposal Considerations

**Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.**

#### DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

#### REGULATORY DISPOSAL INFORMATION

##### European Waste Code:

13 01 10

NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

This material is considered as hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of that Directive applies.

##### Empty Container Warning Empty Container Warning (where applicable):

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

### 14. Transport Information

#### LAND (ADR/RID) =:

Not Regulated for Land Transport

#### INLAND WATERWAYS (ADNR):

Not Regulated for Inland Waterways Transport

#### SEA (IMDG):

Not Regulated for Sea Transport according to IMDG-Code

#### AIR (IATA):

Not Regulated for Air Transport

US DOT Classification: Not Regulated  
Marine Pollutant: Not a Pollutant  
Special Provisions for transport: None Identified

#### ICAO/IATA Classification

Proper shipping name: Not regulated  
IATA Class  
UN number: Not regulated.  
Packing Group: Not regulated.

#### ADR/RID Classification

UN number: Not regulated.  
Proper shipping name: Not regulated.  
ADR/RID Class: Not regulated.  
Packing Group: Not regulated.

#### IMO/IMDG Classification

Proper shipping name: Not regulated  
IMDG Class: Not regulated  
UN number: Not regulated.  
Packing Group: Not regulated.  
Marine Pollutant: Not pollutant.

USA: No special warning labels are required under OSHA 29CFR 1910.1200. OSHA hazard warnings are not applicable for this product; therefore no OSHA Warnings would appear on the label. No EPA hazard classification code.

## 15. Regulatory Information Product Component Ingredients

|                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Europe                                                                          | Material is not dangerous as defined by the EU Dangerous Substances/ Preparations Directives.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| EU LABELING:                                                                    | Not regulated according to EC Directives Material is not dangerous as defined by the EU Dangerous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Substances/Preparations Directives.                                             | Classification and labeling have been performed according to EU Directives 67/548/EEC, 1999/45/EC and 2001/58/EC (including amendments) and the intended use.<br>- Consumer applications.                                                                                                                                                                                                                                                                                                                                                                                              |
| United States                                                                   | <b>EPA SARA Title III Chemical Listings</b><br>Section 302 Extremely Hazardous Substances: None.<br>Section 304 CERCLA Hazardous Substances: None.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| OSHA HAZARD COMMUNICATION STANDARD:                                             | When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Canada                                                                          | <b>WHMIS</b> (Canadian Workplace Hazardous Materials Information System)<br>This product when tested as a whole is not a controlled substance within the meaning of the Hazardous Products Act.                                                                                                                                                                                                                                                                                                                                                                                        |
| Germany:                                                                        | Water Hazardous Class (WGK): 1 (low hazard to water)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| NATIONAL LEGISLATION / REGULATIONS                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Ozone depleting chemicals:                                                      | No ozone depleting chemicals are present or used in manufacture.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Complies with the following national/ regional chemical inventory requirements: | DSL, ENCS, TSCA Special:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Inventory                                                                       | Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AICS                                                                            | All components are listed or exempted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ELINCS                                                                          | Restrictions Apply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| IECSC                                                                           | All components are listed or exempted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| KECI                                                                            | All components are listed or exempted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PICCS                                                                           | All components are listed or exempted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Detail                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| U.S. Regulations                                                                | US INVENTORY (TSCA 8b): Listed on inventory.<br>SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355):: This product is not regulated under Section 302 of SARA and 40 CFR Part 355.<br>SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370):: Defined as non-hazardous by OSHA under 29 CFR 1910.1200(d).<br>SARA 313 toxic chemical notification and release reporting: No products were found.<br>CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: This material is not regulated under CERCLA Sections 103 and 107. |
| State Regulations                                                               | No products were found.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| California prop. 65:                                                            | No products were found                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## 16. Other Information

This product safety data sheet was prepared in compliance Conforms to HazCom 2012/United States. Certain elements refer to Commission Directive 2001/58/EC, 91/155/EEC, 67/548/EEC and 1999/45/EC for reference, as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labeling of dangerous substances and preparations.

### History

17 September 2011 – minor organization update toward GHS format  
21 –March 2014 - moved NFPA and HMIS to section 16 for GHS update in format

### Date of issue:

8 August 2015

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

N/D = Not determined, N/A = Not applicable

### KEY TO THE RISK CODES CONTAINED IN SECTION 2 AND 3 OF THIS DOCUMENT (for information only)

#### U.S.A. Hazardous Material Information System and National Fire Protection Association (U.S.A.)

| Degree of Hazard    | NFPA | HMIS | HAZARD RATINGS  |
|---------------------|------|------|-----------------|
| Health              | 1    | 1    | 0 Insignificant |
| Fire                | 1    | 1    | 1 Slight        |
| Reactivity          | 0    | 0    | 2 Moderate      |
| Personal Protection |      | B    | 3 High          |

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