

EcoBird 4.0 ® Winterizer Formula  
Material Safety Data Sheet  
Roth Chemical  
Company, Ltd.  
Revised: July 2016

**SECTION I**

EPA EST, NO: 82661-IL-001  
MANUFACTURED FOR: Roth Chemical Company, Ltd.  
ADDRESS: 6600 College Blvd., Suite 220  
Overland Park, Kansas 66211  
EMERGENCY TELEPHONE: (800)-222-1222  
FOR TRANSPORTATION EMERGENCY: (911)  
CHEMICAL NAME AND SYNONYMS: D'Limonene, Nonane, Octane  
TRADE NAMES AND SYNONYMS: Same  
CHEMICAL FAMILY: Terpenes, Aliphatic Hydrocarbons  
DOT SHIPPING DESCRIPTION: Petroleum Distillates  
PRODUCT NUMBER: None

**SECTION II INGREDIENTS**

<u>MATERIAL</u>	<u>WT %</u>	<u>EXPOSURE LIMITS</u>
D'limonene	~51	Not assigned
Nonane	25	ACGIH 200 ppm
Octane	24	ACGIH 300 ppm

**SECTION III PHYSICAL DATA**

BOILING POINT: >260° F  
FREEZING POINT: <0° F  
DENSITY @25° C: .77 g/ml  
VAPOR PRESSURE @20° C: 0.7 kPa (20C)  
VAPOR DENSITY: 4.1 (air=1)  
SOLUBILITY IN WATER: Insoluble in water  
FLASH POINT: >86 F (Open Cup)  
EVAPORATION RATE: 1.0 (n-Butyl acetate=1.0)  
APPEARANCE AND ODOR: Orange aroma, Oily liquid

**EPCRA HAZARDS**

IMMEDIATE HEALTH HAZARD: Slight  
DELAYED HEALTH HAZARD: Unknown  
FIRE HAZARD: NFPA Class 1B  
EXPLOSIVE HAZARD: None

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT: >86F (Open Cup)  
AUTOIGNITION TEMPERATURE: 450F  
FLAMMABLE LIMITS IN AIR: AP 0.9% (lower) AP 6.7% (upper)  
EXTINGUISHING MEDIA: Dry Chemical, Foam, Water

SPECIAL FIRE FIGHTING PROCEDURES: Full protective equipment including self-contained breathing apparatus should be used. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and/or explosion when exposed to extreme heat.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None Known

#### *SECTION V HEALTH HAZARD DATA*

THRESHOLD LIMIT VALUE: None Assigned

EFFECTS OF OVEREXPOSURE: Excessive exposure may cause irritation.

EMERGENCY AND FIRST AID PROCEDURES:

IF INHALED: If affected, remove from exposure. Restore breathing. Seek medical attention.

IF ON SKIN: Wash affected areas thoroughly with soap and water. Seek medical attention.

IF IN EYES: Flush eyes with large amounts of water for 15 minutes. If irritation persists, get medical attention.

IF SWALLOWED: Never give anything by mouth to an unconscious person. Give several glasses of water. Keep airway clear. Seek medical attention.

TOXICITY DATA: Unknown

#### *SECTION VI REACTIVITY DATA*

STABILITY: Stable

INCOMPATIBILITY: Keep away from heat, sparks, and flames, and strong oxidizing Agents.

HAZARDOUS DECOMPOSITION PRODUCTS: BY FIRE: Carbon Dioxide, Carbon Monoxide and Oxides of Nitrogen.

HAZARDOUS POLYMERIZATION: Not expected to occur

#### *SECTION VII SPILL OR LEAK PROCEDURES*

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED: Maximize material recovery for reuse or recycling.

WASTE DISPOSAL METHOD: Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

#### *SECTION VIII SPECIAL PROTECTIVE INFORMATION*

RESPIRATORY PROTECTION: Respirators should be used.

VENTILATION: Local exhaust preferable, general exhaust acceptable if in an enclosed area.

PROTECTIVE GLOVES: Wear rubber gloves for long or repeated contact.

EYE PROTECTION: Wear safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT: Eye wash, safety shower.

#### *SECTION IX SPECIAL PRECAUTIONS*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store only in original closed container, in a cool dry place inaccessible to children, pets and domestic animals. Keep away from all ignition sources.

OTHER PRECAUTIONS: Avoid excessive exposure. Do not take internally. Keep from ignition sources. Keep container closed when not in use.

#### *SECTION X REGULATORY STATUS*

TSCA: This product and or components are listed on the Toxic Substances Control Act.

SARA 302/304: The superfund amendments and reauthorization act of 1986 Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following categories: Fire, Acute Health Hazard, Chronic Health Hazard.

Shipping Information: Petroleum Distillates, N.O.S., Class 3 Hazard, UN 1268, Flammable Liquid

CWA: This material is classified as an oil under section 311 of the Clean Water Act and the Oil Protection Act of 1990.

Additional Regulatory Remarks:

Federal Hazardous Substances act, related statutes and Consumer Product Safety Commission regulations, as defined by 16 CFR 1500. 14(b)(3) and 1500.83(a)(13). This product contains "Petroleum Distillates" which may require special labeling if distributed in a manner intended or packaged in a form suitable for use in the household or by Children. Precautionary label dialogue should display the following: DANGER: Contains Petroleum Distillates! Harmful or fatal if swallowed! Call Physician immediately. KEEP OUT OF REACH OF CHILDREN!

The information contained herein is based on the data available to us and is believed to be correct as of the date prepared; however, Roth Chemical Co., Ltd. . makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.