



# Material Safety Data Sheet

## Section 1: Product & Company Identification

**Product Name:** Heartland Differential Additive

**Product Number (s):** 09884

**Manufactured By:**

CRC Industries, Inc.  
885 Louis Drive  
Warminster, PA 18974  
[www.crcindustries.com](http://www.crcindustries.com)

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-4620
24-Hr Emergency (CHEMTREC)	(800) 424-9300

## Section 2: Hazards Identification

### Emergency Overview

Appearance & Odor: Amber liquid, mild petroleum odor

### CAUTION

May Cause Skin Irritation

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

### Potential Health Effects:

**EYE:** Not expected to cause eye irritation.

**SKIN:** May cause mild skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying and cracking of the skin.

**INHALATION:** If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

**INGESTION:** May cause stomach ache or discomfort.

**CHRONIC EFFECTS:** No chronic hazards identified.

**TARGET ORGANS:** None known

Medical Conditions Aggravated by Exposure:

pre-existing skin conditions

See Section 11 for toxicology and carcinogenicity information on product ingredients.

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**Section 3: Composition/Information on Ingredients**

COMPONENT	CAS NUMBER	% by Wt.
Mineral oil	64742-54-7	50 – 60
Alkyl phosphate ester, amine salt	proprietary	15 – 30
Long chain alkenyl phosphate	proprietary	15 - 30

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**Section 4: First Aid Measures**

- Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.
- Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.
- Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.
- Ingestion: Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.
- Note to Physicians:* Treat symptomatically.

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**Section 5: Fire-Fighting Measures**

Flammable Properties: As defined by OSHA, this product is not flammable.

Flash Point:	309.2 (PMCC)	Upper Explosive Limit:	ND
Autoignition Temperature:	ND	Lower Explosive Limit:	ND

Suitable Extinguishing Media: CO<sub>2</sub>, dry chemical, or foam

Products of Combustion: Toxic fumes, gases or vapors may evolve on burning.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

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**Section 6: Accidental Release Measures**

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

### Section 7: Handling and Storage

Handling Procedures: Maximum handling temperature: 140 F. Wash hands thoroughly after handling and before contacting food. Keep containers closed when not in use.

Storage Procedures: Store in a cool dry area out of direct sunlight. Maximum storage temperature: 113 F.

Aerosol Storage Level: NA

### Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Mineral oil	5*	NE	5*	10*	NE		mg/m <sup>3</sup>
Alkyl phosphate ester, amine salt	NE	NE	NE	NE	NE		
Long chain alkenyl phosphate	NE	NE	NE	NE	NE		
N.E. – Not Established      (c) – ceiling      (s) – skin      (v) – vacated      * - oil mist							

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

### Section 9: Physical and Chemical Properties

Physical State: liquid  
 Color: amber  
 Odor: mild petroleum  
 Specific Gravity: 0.92  
 Initial Boiling Point: ND

Freezing Point: ND  
 Vapor Pressure: ND  
 Vapor Density: ND (air = 1)  
 Evaporation Rate: < 1 (ether = 1)  
 Solubility: ND  
 pH: NA  
 Volatile Organic Compounds: wt %: < 65 g/L: ND lbs./gal: ND

**Section 10: Stability and Reactivity**

Stability: Stable  
 Conditions to Avoid: Elevated temperatures and pressures  
 Incompatible Materials: Oxidizing agents  
 Hazardous Decomposition Products: Smoke, oxides of carbon, aldehydes and oxides of phosphorus  
 Possibility of Hazardous Reactions: No

**Section 11: Toxicological Information**

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

**ACUTE EFFECTS**

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Mineral oil	LD50	> 5000 mg/kg	Oral	Rat
Mineral oil	LD50	> 2000 mg/kg	Dermal	Rabbit

**CHRONIC EFFECTS****Carcinogenicity:**

	<u>Component</u>	<u>Result</u>
OSHA:	None listed	
IARC:	None listed	
NTP:	None listed	

Mutagenicity: No information available

Other: Mineral oil The mineral oils in this product are severely refined and not considered to be carcinogenic. They have been demonstrated to contain less than 3% extractables by the IP346 test.

**Section 12: Ecological Information**

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: No information available  
 Persistence / Degradability: At least 25% of the components in this product show moderate biodegradation based on OECD 302-type test data.  
 Bioaccumulation / Accumulation: At least 25% of the components display no potential to bioconcentrate.

Mobility in Environment: No information available.

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**Section 13: Disposal Considerations**

Disposal: This material is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

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**Section 14: Transport Information**

Proper shipping description:

US DOT (ground): Not regulated

Special Provisions: None

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**Section 15: Regulatory Information**

**U.S. Federal**

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

**Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.**

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:	Fire Hazard	No
	Reactive Hazard	No
	Release of Pressure	No
	Acute Health Hazard	Yes
	Chronic Health Hazard	No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

**State Regulations**

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm:

< 1 ppm cadmium  
 < 1 ppm lead  
 < 1 ppm arsenic

State Right to Know:

New Jersey: 800967-5546P, 800967-5520P, 800967-5199P  
 Pennsylvania: None  
 Massachusetts: None  
 Rhode Island : None

**Additional Regulatory Information:** None

**Section 16: Other Information**

NFPA:	Health: 1	Flammability: 1	Reactivity: 1	
HMIS:	Health: 1	Flammability: 1	Reactivity: 1	PPE: B

Prepared By: Michelle Rudnick  
 CRC #: 753  
 Revision Date: 3/9/2007

Changes since last revision: MSDS reformatted in accordance with ANSI Z400.1-2004

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS:	Chemical Abstract Service	NA:	Not Applicable
ppm:	Parts per Million	ND:	Not Determined
TCC:	Tag Closed Cup	NE:	Not Established
PMCC:	Pensky-Martens Closed Cup	g/L:	grams per Liter
PPE:	Personal Protection Equipment	lbs./gal:	pounds per gallon
TWA:	Time Weighted Average	STEL:	Short Term Exposure Limit
OSHA:	Occupational Safety and Health Administration		
ACGIH	American Conference of Governmental Industrial Hygienists		
NIOSH	National Institute of Occupational Safety & Health		