

**MATERIAL SAFETY DATA SHEET****PHFB**

This MSDS complies with OSHA'S Hazard Communication standard 29 CFR 1910.1200 and OSHA Form 174

**IDENTITY AND MANUFACTURER'S INFORMATION**

<b>NFPA Rating:</b> Health-2; Flammability-2; Reactivity-0; Special-	<b>HMIS Rating:</b> Health-2; Flammability-2; Reactivity-1 ; Personal Protection-B
Manufacturer's Name: <b>DYNAFLUX, INC.</b> 241 Brown Farm Rd. Cartersville, GA 30120	<b>DOT Hazard Classification:</b> Consumer Commodity ORMD 48580 Sub 3 (4x1) <i>5 gal up:</i> Flammable Liquid, N.O.S. (Petroleum Distillates), 3, UN1993,, III <b>Identity</b> (trade name as used on label): <b>CRACK CHECK PHF PENETRANT</b> (non-aerosol)
Prepared By: GS	<b>MSDS Number:</b> PHFB Revision: 10/2/2008
Information Calls: (800)334-4420	<b>NOTICE:</b> JUDGMENT BASED ON INDIRECT TEST DATA

**Emergency Response Number: CHEMTEL US: (800)-255-3924 / International: 813-248-0585****SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION**

<b>COMPONENTS-CHEMICAL NAMES AND COMMON NAMES</b> (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS NUMBER	SARA III LIST	OSHA PEL (PPM)	ACGIH TLV (ppm)	Carcinogen Ref. source*
Xylol	1330-20-7	yes	100	100	d
Aliphatic Hydrocarbon Distillate	8052-41-3	yes	500	100	d
Aliphatic Hydrocarbon	64741-67-9	yes	100	100	d
VOC: 78%					

**SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>Boiling Point:</b> 360 ° F	<b>Specific Gravity (H2O=1):</b> 0.929
<b>Vapor Pressure:</b> (PSIG @ 70° F (Aerosols): NA	<b>Vapor Pressure:</b> (Non-Aerosols)(mm Hg and Temperature):10mmHg @ 20 °C
<b>Vapor Density:</b> (Air=1): NE	<b>Evaporation Rate</b> (BUAC=1): .08
<b>Solubility in Water:</b> Negligible	<b>Water Reactive:</b> No

**Appearance and Odor:** Red liquid aromatic odor.**SECTION 3 - FIRE AND EXPLOSION HAZARD DATA**

<b>FLAMMABILITY</b> as per USA FLAME	<b>Auto Ignition Temperature</b>	<b>Flammability Limits in Air by % in Volume:</b>			
<b>PROJECTION TEST</b> (aerosols) NA	NE	<b>%LEL:</b>	0.8	<b>%UEL:</b>	---

**FLASH POINT AND METHOD USED (non-aerosols):** 148° F**EXTINGUISHER MEDIA:** Foam, water fog, carbon dioxide, dry chemical**SPECIAL FIRE FIGHT PROCEDURES:**

Wear self contained breathing apparatus with a full face piece in pressure demand mode when fighting fires.

**Unusual Fire & Explosion Hazards:** Vapors are heavier than air. Vapors can be ignited from flames or other sources of heat at locations distant from material handling point. Product can ignite explosively Never use welding or cutting torches near fluid. Ground all work.

**SECTION 4 - REACTIVITY HAZARD DATA**

<b>STABILITY:</b> [ ] STABLE [X] UNSTABLE	<b>HAZARDOUS POLYMERIZATION</b> [ ] WILL [X] WILL NOT OCCUR
<b>Incompatibility</b> (Mat. to Avoid): Strong oxidizing agents, sparks, open flame.	<b>Conditions to Avoid:</b> None

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.**SECTION 5 - HEALTH HAZARD DATA**

PRIMARY ROUTES OF ENTRY: [X] INHALATION [ ] INGESTION [ ] SKIN ABSORPTION [ ] EYE [ ] NOT HAZARDOUS

**ACUTE EFFECTS:****Inhalation:** Nausea, respiratory irritation, dizziness**Eye contact:** Irritant**Skin contact:** Mild irritant**Ingestion:** Irritant**CHRONIC EFFECTS:****Medical conditions Generally Aggravated by Exposure:** Dermatitis**EMERGENCY FIRST AID PROCEDURES****Eye Contact:** Rinse eyes with water for fifteen minutes**Skin Contact:** Wash with soap and water.**Inhalation:** Primary route of entry. Get fresh air.**Ingestion:** Do not induce vomiting. Give several glasses of water. Call a physician.**SECTION 6 - CONTROL AND PROTECTIVE MEASURES****Respiratory Protection (specify type):** NIOSH/MSHA approved air supplied respirator in confined areas.**Protective Gloves:** Nitrile rubber**Eye Protection:** Splash goggles**Ventilation Requirements:** Positive air movement to provide ventilation below TLV.**Other Protective Clothing & Equipment:** For continuous use, wear protective clothing and boots.**Hygienic Work Practices:** No smoking in use area.**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE****Steps To Be Taken if Material Is Spilled Or Released:** Small - Absorb on paper, floor absorbent. Large - eliminate all ignition sources.**Waste Disposal Methods:** With a licensed disposal service in compliance with local, state and federal regulations.**Precautions To Be Taken In Handling & Storage:** Wear protective clothing. Store in well ventilated area. do not puncture or incinerate containers. Do not store at temperatures above 120° F. KEEP OUT OF REACH OF CHILDREN**Other Precautions &/or Special Hazards:** KEEP OUT OF REACH OF CHILDREN.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

\*Chemical Listed as Carcinogen or Potential Carcinogen. [a] NPT [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only