Safety Data Sheet Dynaflux CF A 04/25/2013
Product: Crack Check CF Cleaner (Aerosol)

Part 1: Product and Company Identification

Identification CF A
Trade Name: Crack Check CF Cleaner (Aerosol)
Product Use: Cleans hard surfaces before and after penetrant application.
Manufacturers Name: Dynaflux, Inc.
241 Brown Farm Rd.
Cartersville, GA 30120 U.S.A.
Emergency Telephone Number: For U.S.: 800-255-3924 International: 813-248-0585

Part 2: Hazardous Ingredients

Hazardous Ingredients	CAS No.	SARA III List	PEL PPM	TLV PPM	Carcinogen Refer. Source
Aliphatic Petroleum Distillates	8052-41-3	Yes	500	100	Not Listed
Aliphatic Petroleum Distillates	64742-88-7	Yes	500	300	d
Propane	74-98-6	No	1000	1000	d

Part 3: Hazard Rating

H.M.I.S.

Health	2
Flammability	3
Reactivity	0
Special	-

N.F.P.A.

Health	2
Flammability	3
Reactivity	0
Personal Protection	B

Part 4: First Aid Measures

Eye Contact: Flush with water for 15 minutes. Get medical attention.
Skin Contact: Wash with soap and water.
Inhalation: Move to fresh air.
Ingestion: Do not induce vomiting. Give several large glasses of water. Seek medical attention.

Part 5: Fire Fighting Measures

Flashpoint: USA Flame Projection Test-Flammable
U.E.L.: None Established
L.E.L. : None Established
Auto Ignition Temperature: N.E.
Combustion Products: Carbon dioxide, Carbon monoxide
Extinguishing Media: Foam, CO2, Dry chemical
Unusual Fire and Explosion Hazard: use a self contained breathing apparatus. Use water fog to cool containers to prevent rupturing.

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Part 6: Accidental Release Measures

Small Spill: Soak up with absorbent material, i.e. kitty litter, clay or dirt. Sweep up and place in a labeled closed container.
Large Spill: Keep unauthorized people from the area. Use self contained breathing apparatus. Dike area and pump contents to a labeled, closed container. Absorb residue and sweep up. Place in a closed, labeled container. Remove all ignition sources.

Part 7: Handling and Storage

Leave in the shipping containers. Store in a cool dry place. Do not expose aerosols to temperatures above 120° F or the container may rupture. Aerosol container, when vented through normal use, does not present a disposal problem.

Part 8: Exposure Control / Personal Protection

Remove all ignition sources. If vapors exceed TLV use an approved respirator. Use mechanical ventilation in confined areas. Wear safety glasses and protective gloves.

Part 9: Physical and Chemical Properties

Boiling Point: NA
Vapor Pressure (psig@70°F-60psig) Aerosol
Vapor Density: N.E.
Solubility in Water: Not soluble.
Appearance and Odor: Clear liquid with solvent odor.
Specific Gravity: .745
Evaporation Rate (BuAc=1): NA
Water Reactive: No

Part 10: Stability and Reactivity

Stability- Product is stable
Hazardous Polymerization- will not occur.
Conditions to Avoid- Ignition sources, open flames, strong oxidizers.
Hazardous Decomposition Products-Carbon dioxide, carbon monoxide.

Part 11: Toxicological Information

Carcinogenicity Classification NTP-Not Listed
IARC-Not Listed
Reproductive Toxicity: Animal Studies-None.
Ingestion Toxicity- LD_{50} 2000mg/kg
Mildly irritating to the skin with prolonged exposure.

Part 12: Ecological Information

Biodegradability – Not biodegradable
Keep out of sewers and water ways.
Not expected to be harmful to aquatic organism.
VOC: 100%

Part 13: Disposal Consideration

Do not dump into any sewers, on the ground or into any body of water. Send to a permitted recycler.
Empty aerosol cans are not considered hazardous and can be disposed in domestic trash.

Part 14: Transportation Information

D.O.T. Shipping Name – Pressurized Container
Hazard Class- O.R.M.D.
IMDG- Same as D.O.T.
Marine Pollutant – No
Reportable Quantity: 1000 lbs.

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Part 15: Regulatory Information

Section 311 and 312
Immediate health Hazard – Yes
Fire Hazard – Yes
Reactive Hazard – No
TSCA – Listed
CEPA-(DSL) Listed

Part 16: Other Information

Dynaflux, Inc.
241 Brown Farm Rd.
Cartersville, GA 30120 U.S.A.
Completed by: Eugene Schaffstall

Disclaimer of Expressed and implied Warranties:
The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date of the Material Safety Data sheet was prepared. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices as specified on the label copy.

Material Safety Data Sheet
Product: Crack Check DF Developer (Aerosol)

Part 1: Product and Company Identification

Identification DF A
Trade Name: Crack Check DF Developer
Product Use: Identifies cracks in hard surfaces.
Manufacturers Name: Dynaflux, Inc.
241 Brown Farm Rd.
Cartersville, GA 30120 U.S.A.
Emergency Telephone Number: For U.S.: 800-255-3924 International: 813-248-0585

Part 2: Hazardous Ingredients

Signal Word: **DANGER**
H223: Flammable aerosol
H229: Pressurized container: may burst if heated
H319: Causes serious eye irritation
H336: May cause drowsiness or dizziness

Hazardous Ingredients	CAS No.	SARA III List	PEL PPM	TLV PPM	Carcinogen Refer. Source
Ethyl Acetate	141-78-6	Yes	400	400	d
Isopropyl Alcohol	67-630	Yes	500	400	d
Isobutane / Propane Blend	75-28-5	No	1000	1000	d
	74-98-6	No	1000	1000	d

Part 3: Hazard Rating

H.M.I.S.

Health	1
Flammability	3
Reactivity	0
Special	-

N.F.P.A.

Health	1
Flammability	3
Reactivity	0
Personal Protection	b

Part 4: First Aid Measures

Eye Contact: Flush with water for 15 minutes. Get medical attention. **GHS Subcategory 2B**
Skin Contact: Wash with soap and water. **GHS Category 3**
Inhalation: Move to fresh air.
Ingestion: Do not induce vomiting. Give several large glasses of water. Seek medical attention. **GHS Category 2**

Continued

Part 5: Fire Fighting Measures

Flashpoint: Flammable-Flame Projection Test
U.E.L.: None Established
L.E.L. : None Established
Auto Ignition Temperture: N.E.
Combustion Products: Carbon dioxide, Carbon monoxide
Extinguishing Media: Foam, CO_2, Dry chemical
Unusual Fire and Explosion Hazard: use a self contained breathing apparatus. Use water fog to cool containers to prevent rupturing.

Part 6: Accidental Release Measures

Small Spill: Soak up with absorbent material, i.e. kitty litter, clay or dirt. Sweep up and place in a labeled closed container.
Large Spill: Keep unauthorized people from the area. Use self contained breathing apparatus. Dike area and pump contents to a labeled, closed container. Absorb residue and sweep up. Place in a closed, labeled container. Remove all ignition sources.

Part 7: Handling and Storage

Leave in the shipping containers. Store in a cool dry place. Do not expose aerosols to temperatures above 120° F or the container may rupture.

Part 8: Exposure Control / Personal Protection

If vapors exceed TLV use an approved respirator. Use mechanical ventilation in confined areas. Wear safety glasses and protective gloves. Remove all ignition sources.

Part 9: Physical and Chemical Properties

Boiling Point: NA
Vapor Pressure (psig@70°F)-60psig
Vapor Density: N.E.
Solubility in Water: Partially Soluble.
Appearance and Odor: White liquid with sweet odor.
Specific Gravity: .92
Evaporation Rate (BuAc=1): 1.3
Water Reactive: No

Part 10: Stability and Reactivity

Stability- Product is stable
Hazardous Polymerization- will not occur.
Conditions to Avoid- Ignition sources, open flames, strong oxidizers.
Hazardous Decomposition Products-Carbon dioxide, carbon monoxide.

Part 11: Toxicological Information

TLV: 400 ppm
PEL : 500 ppm
NTP: Not Listed
IARC: Not Listed
Mildly irritating to the skin with prolonged exposure.

Part 12: Ecological Information

Biodegradability – Biodegradable
Keep out of sewers and water ways.
Not expected to be harmful to aquatic organism.

Part 13: Disposal Consideration

Do not dump into any sewers, on the ground or into any body of water. Send to a permitted recycler.
Empty aerosol cans are not considered hazardous and can be disposed in domestic trash.

Part 14: Transportation Information

D.O.T. Shipping Name – Pressurized Container; UN1950, 2.1, PGII
Hazard Class- O.R.M.D.
IMDG- Same as D.O.T.
Marine Pollutant – No

Part 15: Regulatory Information

Section 311 and 312
Immediate health Hazard – Yes
Fire Hazard – Yes
Reactive Hazard – No
TSCA – Listed
CEPA-(DSL) Listed

Part 16: Other Information

Dynaflux, Inc.
241 Brown Farm Rd.
Cartersville, GA 30120 U.S.A.
Completed by: Eugene Schaffstall

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MATERIAL SAFETY DATA SHEET

PHFA

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

IDENTITY AND MANUFACTURER'S INFORMATION

NFPA Rating: Health-2; Flammability-4; Reactivity-0 ; Special-	**HMIS Rating:** Health-2; Flammability-4; Reactivity-0; Personal Protection-B
Manufacturer's Name: **DYNAFLUX, INC.**	**DOT Hazard Classification:** Consumer Commodity ORMD 48580 Sub 3
241 Brown Farm Rd.	**Identity** (trade name as used on label):
Cartersville, GA 30120	**CRACK CHECK PHF PENETRANT** (aerosol)
Prepared By: GS	**MSDS Number: PHFA** Revision: 2/7/2013
Information Calls: (800)334-4420	NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA

Emergency Response Number: CHEMTEL US: (800)-255-3924 / International: 813-248-0585

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS NUMBER	SARA III LIST	OSHA PEL (PPM)	ACGIH TLV (ppm)	Carcinogen Ref. source*
Aliphatic Hydrocarbon	64742-47-8	yes	500	100	d
Aromatic Hydrocarbons	64741-67-9	yes	100	100	d
Xylol	1330-20-7	yes	100	100	d
Isobutoane/Propane Blend	75-28-5 and	no	1000	1000	d
	74-98-6	no	1000	1000	d
VOC: 82.54%					

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: NA	**Specific Gravity (H2O=1):** 0.945
Vapor Pressure:(PSIG @ 70° F (Aerosols): psig max 60	**Vapor Pressure:**(Non-Aerosols)(mm Hg and Temp):10mmHg @ 20° C
Vapor Density:(Air=1): NE	**Evaporation Rate** (BUAC=1): .08
Solubility in Water: Insoluble	**Water Reactive**: No

Appearance and Odor: Red liquid with solvent odor.

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols)	**Auto Ignition Temperature**	**Flammability Limits in Air by % in Volume:**	
Flammable	NE	**%LEL:** NE	**%UEL:** NE

FLASH POINT AND METHOD USED: NA

EXTINGUISHER MEDIA: CO2, Foam, Dry Chemical

SPECIAL FIRE FIGHT PROCEDURES: Wear self contained breathing apparatus.

Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 120º F or the container may rupture.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: [X] STABLE [ ] UNSTABLE	**HAZARDOUS POLYMERIZATION** [ ] WILL [X] WILL NOT OCCUR
Incompatibility (Mat. to Avoid): Strong oxidizers, sparks, open flame.	**Conditions to Avoid**: None

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.

SECTION 5 - HEALTH HAZARD DATA

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

ACUTE EFFECTS:

Inhalation: Headache, dizziness, nausea. If vapor concentration exceeds TLV, possible unconsciousness or could be fatal.

Eye contact: Mild irritation.

Skin contact: Possible mild irritation from defatting of skin by solvents.

Ingestion: Nausea, possible aspiration pneumonia if vomited.

CHRONIC EFFECTS: Possible neural dysfunction.

Medical conditions Generally Aggravated by Exposure: Dermatitis

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. Get medical attention.

Skin Contact: Wash with soap and water. See physician if irritation develops.

Inhalation: Primary route of exposure. Remove to fresh air. Resuscitate. Get medical attention.

Ingestion: DO NOT INDUCE VOMITING. Give several glasses of water. CALL PHYSICIAN.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): If vapor concentration exceeds TLV, wear respirator approved by NIOSH/MSHA for organic vapors.

Protective Gloves: Rubber gloves recommended

Eye Protection: Safety glasses recommended

Ventilation Requirements: Adequate to keep vapor concentration below TLV.

Other Protective Clothing & Equipment: None

Hygienic Work Practices: Wash hands before handling food.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken if Material Is Spilled Or Released:

Avoid breathing vapors. Remove ignition sources. Soak up with absorbent. material. Incinerate or landfill according to local, state and federal regulations.

Waste Disposal Methods: Aerosol cans, when vented to atmospheric pressure through normal use pose no disposal problem.

Precautions To Be Taken In Handling & Storage:

Avoid breathing vapors. Do not puncture or incinerate container. Do not store at temperatures above 120° F.

Other Precautions &/or Special Hazards: Avoid food contamination. **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