



Safety Data Sheet

Dynaflux DNF A SDS 04/01/14

Product: Crack Check DNF Developer (Aerosol)

Part 1: Product and Company Identification

Identification DNF A

Trade Name: Crack Check DNF Developer (Aerosol)

Product Use: To locate cracks on metal and hard surfaces in the non- destructive testing process.

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 IngredientsSignal Word: **WARNING****H229:** Pressurized container: may burst if heated**H351:** Suspected of causing cancer

Hazardous Ingredients	CAS No.	SARA III List	PEL PPM	TLV PPM	Carcinogen Refer. Source
Dichloromethane	75-09-2	Yes	25	12.5	IARC NTP

Warning:

Contains gas under pressure. May explode if heated.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause damage to organs.

May be harmful if swallowed.

Part 3: Hazard Rating

H.M.I.S.	
Health	2
Flammability	0
Reactivity	0
Special	-

N.F.P.A.	
Health	3
Flammability	0
Reactivity	0
Personal Protection	b

Part 4: First Aid Measures

Eye Contact: Flush with water for 15 minutes. If irritation persists call a physician. **GHS: Category 2A**

Skin Contact: Flush with water. Wash with soap and water. Apply a lotion. **GHS: Category 2**

Inhalation: Move to fresh air.

Ingestion: Do not induce vomiting. Give several large glasses of water. Seek medical attention. **GHS: Category 4**

Reproductive Toxicity: GHS Category 2

Carcinogenicity: GHS Category 2

Part 5: Fire Fighting Measures

Flashpoint: Nonflammable Flame Projection Test

U.E.L.: None Established

L.E.L. : None Established

Auto Ignition Temperature: 662°C.

Combustion Products: Carbon dioxide, carbon monoxide, hydrogen chloride and small amounts of phosgene.

Extinguishing Media: Foam, CO₂, Dry chemical

Unusual Fire and Explosion Hazard: use a self contained breathing apparatus. Use water fog to cool s 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.

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 vapor exceeds TLV use a approved respirator. Use mechanical ventilation in confined spaces. Wear safety glasses and protective gloves.

Part 9: Physical and Chemical Properties

Boiling Point: 39.8°C

Vapor Pressure: 47.33 KPa

Vapor Density: 2.93

Octanol / Water Partition Coefficient. 1.25

Appearance and Odor: Clear liquid with solvent odor.

Specific Gravity: 1.33

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, amines and strong bases.

Part 11: Toxicological Information

Ingestion: Rat LD₅₀ 1500-2500mg/kg

Inhalation: Rat LC₅₀ 10,000 ppm

Carcinogenicity Classification: N.T.P. Anticipated Carcinogen. IARC: Possible carcinogen; 2B

Reproductive Toxicity: animal studies- None

Genetic Toxicity-negative results from animal studies.

Part 12: Ecological Information

Potential for mobility in soil is high.
Octanol/Water partition coefficient: 1.25
Organic carbon/water partition coefficient: 24
Atmospheric half life: 79-110 days
Biodegradation 5-26% 28 days
LC50 bluegill: 224 mg/l
Aquatic Toxicity EC50 water flea. Immobilization: 480 mg/l

Part 13: Disposal Consideration

Do not dump into any sewers, on the ground or into any body of water. Send to a permitted recycler.

Part 14: Transportation Information

D.O.T. Shipping Name – Dichloromethane
Hazard Class- 6.1, ID Number UN1593, PGIII
IMDG- Same as D.O.T.
Marine Pollutant – No
Reportable Quantity: 1001 lbs.

Part 15: Regulatory Information

Section 311 and 312
Immediate Health Hazard – Yes
Delayed Health Hazard- Yes
Fire Hazard – No
Reactive Hazard – No
Section 313- Dichloromethane
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:

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Safety Data Sheet

Dynaflux SDS CNF A 4/11/2014

Product: Crack Check CNF Cleaner (Aerosol)

Part 1: Product and Company Identification

Identification CNF A

Trade Name: Crack Check CNF 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 IngredientsSignal Word: **WARNING****H229:** Pressurized container: may burst if heated**H351:** Suspected of causing cancer

Hazardous Ingredients	CAS No.	SARA III List	PEL PPM	TLV PPM	Carcinogen Refer. Source
Dichloromethane	75-09-2	Yes	25	12.5	IARC NTP

Warning:

Contains gas under pressure. May explode if heated.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause damage to organs.

May be harmful if swallowed.

Part 3: Hazard Rating**H.M.I.S.**

Health	2
Flammability	0
Reactivity	0
Special	-

N.F.P.A.

Health	3
Flammability	0
Reactivity	0
Personal Protection	b

Part 4: First Aid MeasuresEye Contact: Flush with water for 15 minutes. If irritation persists call a physician. **GHS: Category 2A**Skin Contact: Flush with water. Wash with soap and water. Apply a lotion. **GHS: Category 2**

Inhalation: Move to fresh air.

Ingestion: Do not induce vomiting. Give several large glasses of water. Seek medical attention. **GHS: Category 4****Reproductive Toxicity: GHS Category 2****Carcinogenicity: GHS Category 2**

Part 5: Fire Fighting Measures

Flashpoint: Nonflammable Flame Projection Test

U.E.L.: None Established

L.E.L. : None Established

Auto Ignition Temperature: 662°C.

Combustion Products: Carbon dioxide, carbon monoxide, hydrogen chloride and small amounts of phosgene.

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.

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.

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 vapor exceeds TLV use a approved respirator. Use mechanical ventilation in confined spaces. Wear safety glasses and protective gloves.

Part 9: Physical and Chemical Properties

Appearance: thin liquid

Odor: Chlorinated solvent

Odor threshold: Unknown

pH: NA

Melting/Freezing Point: Unknown

Initial boiling point/boiling range: 39.8°C

Flash Point: NA

Evaporation Rate: NA

Flammability: NA

UEL/LEL: Unknown

Vapor Pressure: 47.33 KPA

Vapor Density: Unknown

Solubility: Unknown

n-octynol/water coefficient: 1.25

Auto Ignition Temperature: Unknown

Decomposition Temperature: Unknown

Part 10: Stability and Reactivity

Stability- Product is stable

Hazardous Polymerization- will not occur.

Conditions to Avoid- Ignition sources, open flames, amines and strong bases.

Part 11: Toxicological Information

Ingestion: Rat LD₅₀ 1500-2500mg/kg

Inhalation: Rat LC₅₀ 10,000 ppm

Carcinogenicity Classification: N.T.P. Anticipated Carcinogen. IARC: Possible carcinogen; 2B

Reproductive Toxicity: animal studies- None

Genetic Toxicity-negative results from animal studies.

Part 12: Ecological Information

Potential for mobility in soil is high.
Octanol/Water partition coefficient: 1.25
Organic carbon/water partition coefficient: 24
Atmospheric half life: 79-110 days
Biodegradation 5-26% 28 days
LC50 bluegill: 224 mg/l
Aquatic Toxicity EC50 water flea. Immobilization: 480 mg/l

Part 13: Disposal Consideration

Do not dump into any sewers, on the ground or into any body of water. Send to a permitted recycler.

Part 14: Transportation Information

D.O.T. Shipping Name – Dichloromethane
Hazard Class- 6.1, ID Number UN1593, PGIII
IMDG- Same as D.O.T.
Marine Pollutant – No
Reportable Quantity: 1001 lbs.

Part 15: Regulatory Information

Section 311 and 312
Immediate Health Hazard – Yes
Delayed Health Hazard- Yes
Fire Hazard – No
Reactive Hazard – No
Section 313- Dichloromethane
SARA 313 - Listed
TSCA – Listed
CEPA-(DSL) Listed
European Inventory – Listed
Canadian DSL- Listed
Australian AICA – Listed
Japanese ENCS-Listed
California Prop 65 - 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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Safety Data Sheet

Dynaflux SDS PHF A 4/22/2014

Product: Crack Check PHF Penetrant (Aerosol)

Part 1: Product and Company Identification

Identification PHF A

Trade Name: Crack Check PHF Penetrant (Aerosol)

Product Use: Dye to penetrate 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 IngredientsSignal Word: **DANGER****H223:** Flammable aerosol**H229:** Pressurized container: may burst if heated**H361:** Suspected of damaging fertility or the unborn child

Hazardous Ingredients	CAS No.	SARA III List	PEL PPM	TLV PPM	Carcinogen Refer. Source
Aliphatic Hydrocarbon	64742-47-8	Yes	500	100	Not Listed
Aromatic Hydrocarbon	64741-67-6	Yes	100	100	Not Listed
Xylene	1330-20-7	Yes	100	100	Not Listed
Isobutane / Propane Blend	75-28-5	No	1000	1000	Not Listed
	74-98-6	No	1000	1000	Not Listed

VOC 82.54%

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 MeasuresEye Contact: Flush with water for 15 minutes. Get medical attention. **GHS Subcategory 2A.**Skin Contact: Wash with soap and water. **GHS Category 2**

Inhalation: Move to fresh air. Get medical attention.

Ingestion: Do not induce vomiting. Give several large glasses of water. Call physician. **GHS Category 1**

Continued

Part 5: Fire Fighting Measures

Flashpoint: Flammable-Flame Projection Test

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.

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° as 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: Insoluble

Appearance and Odor: Red liquid with solvent odor.

Specific Gravity: .945

Evaporation Rate (BuAc=1): .08

Water Reactive: No

Ph: NA

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- LD₅₀ 3160mg/kg Category 5

Mildly irritating to the skin with prolonged exposure. Category 3

Part 12: Ecological Information

Biodegradability – Not Biodegradable

Keep out of sewers and water ways. Category III

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.

Part 14: Transportation Information

D.O.T. Shipping Name – Pressurized Container
Hazard Class- O.R.M.D., UN1950, 2.1 Limited Quantity
IMDG- Same as D.O.T.
Marine Pollutant – No
Reportable Quantity – 1000 lbs.

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.
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Cartersville, GA 30120 U.S.A.
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MATERIAL SAFETY DATA SHEET

600B

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

IDENTITY AND MANUFACTURER'S INFORMATION

NFPA Rating: Health2; Flammability-0; Reactivity-0 ;Special-OXID		HMIS Rating: Health-2; Flammability-0; Reactivity-0; Personal Protection-	
Manufacturer's Name: DYNAFLUX, INC. 241 Brown Farm Rd. Cartersville, GA 30120		DOT Hazard Classification: Consumer Commodity ORMD 48580 Sub 3 Identity (trade name as used on label): <p align="center">DYNAFLUX CHEM SHARP</p>	
Prepared By: GS	MSDS Number: 600B	Revision:	4/13/2010
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 313 LIST	OSHA PEL (PPM)	ACGIH TLV (ppm)	Carcinogen Ref. source*
Diazotizing salts	7632-00-0	Yes	None	None	d
VOC: 0%					

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Decomposes @ 320° degrees C	Specific Gravity (H2O=1): 2.17
Vapor Pressure: (PSIG @ 70° F (Aerosols): NA	Vapor Pressure: (Non-Aerosols)(mm Hg and Temperature): NA
Vapor Density: (Air=1): NA	Evaporation Rate (BUAC=1): NA
Solubility in Water: 46% by weight @ 20°C	Water Reactive: NO
Appearance and Odor: Off white powder - no odor.	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols): NA	Auto Ignition Temperature: NA	Flammable Limits in Air by % in Volume:	
		%LEL: NA	%UEL: NA
FLASH POINT AND METHOD USED (non-aerosols): NA			
EXTINGUISHER MEDIA: Water fog			
SPECIAL FIRE FIGHT PROCEDURES: NA			
Unusual Fire & Explosion Hazards: Material is an oxidizing agent, can supply oxygen to stimulate or accelerate the combustion of organic or other combustible materials. Decomposes above 320° deg C (610° F)			

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR
Conditions to Avoid: NA	
Incompatibility (Mat. to Avoid): Acids, ammonium compounds, reducing agents, particularly cyanides, thiocyanates and thiosulfates.	
Hazardous Decomposition Products: Nitrogen oxides.	

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS
ACUTE EFFECTS:
Inhalation: Dust or mist may irritate respiratory tract.
Eye contact: May cause local irritation.
Skin contact: May cause local irritation.
Ingestion: May irritate internal organs. Call a physician. Give several glasses of water.
CHRONIC EFFECTS:
Medical conditions Generally Aggravated by Exposure: None Known

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with plenty of water. If irritation persists, get medical attention.
Skin Contact: Wash with plenty of soap and water.
Inhalation: Remove to fresh air.
Ingestion: Give several glasses of water and induce vomiting. Get medical attention.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): In case of fire, use a NIOSH approved breathing mask
Protective Gloves: Rubber gloves
Eye Protection: Goggles
Ventilation Requirements: Normal ventilation is usually adequate.
Other Protective Clothing & Equipment: None
Hygienic Work Practices: Wash hands before eating and smoking.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken if Material Is Spilled Or Released: Immediately pick up and place in a clean fiber or steel drum. Label as "OXIDIZER". Water may be used to complete clean up.
Waste Disposal Methods: Dispose of in accordance with local, state and federal regulations.
Precautions To Be Taken In Handling & Storage: Store in a cool dry area away from incompatible materials. Follow NFPA Code, reference b.
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