

Section 1 – Identification

Product Identifier

Crack Check PHF Penetrant (Liquid)

Other Means of Identification

PHF B

Recommended Use of the Chemical and Restrictions on Use

Dye to penetrate cracks in hard surfaces.

Responsible Party

Dynaflux, Inc.
241 Brown Farm Rd., Cartersville, GA 30120
1.800.334.4420

Emergency Phone Number

Call Chem-Tel at 1.800.255.3924 for chemical emergencies

Section 2 – Hazard Classification

Hazard Statement(s)

Flammable liquid and vapor
May cause an allergic skin reaction
Suspected of causing cancer
May cause respiratory irritation
Causes serious eye irritation
Causes skin irritation

Precautionary Statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
In case of fire: Use foam, CO2, or dry chemical to extinguish.
Keep away from heat, hot surfaces, sparks, open flames and other ignitions sources. No smoking.
Ground or bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting, and other equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing vapors.
Use only outdoors or in a well-ventilated area.
Wear protective gloves and eye protection.
Wash hands and exposed skin thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Dispose of container in accordance with local regulations.
Keep container tightly closed.
Store locked up.
Store in a well-ventilated place. Keep cool.
Keep out of the reach of children.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice.
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

Classification of the Chemical

Flammable Liquid, category 3
Skin Sensitization, category 1
Carcinogenicity, category 2
STOT-SE, category 3
Eye Irritation, category 2
Skin Irritation, category 2

Signal Word

Warning

Pictograms



Hazards Not Otherwise Classified

None Known

Note

Labeling elements found on this SDS may be different from labeling elements found on the label. Safety Data Sheets are regulated by OSHA (29 CFR §1910.1200) while the actual product and its label may be regulated by a different government agency. Please contact the responsible party in Section 1 if you have any questions.

0% of this mixture consists of ingredient(s) of unknown acute toxicity

Precautionary Statement(s)(continued)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

If eye irritation persists: Get medical advice.

If exposed or concerned: Get medical advice.

Specific treatment (see FIRST AID section on label).

Section 3 – Composition of Ingredients

Ingredient	CAS	%wt	Hazards
1,2,4-Trimethylbenzene	95-63-6	22.5%	Flam Liq 3; Acute Tox 4(inhal); Skin Irrit. 2; Eye Irrit. 2; STOT-SE 3
Solvent Naphtha (petroleum), heavy arom.	64742-94-5	7.1%	Aspiration Tox 1
2-Naphthalenol, 1-[[4-(phenylazo)phenyl]-azo]-, ar-heptyl ar',ar"-Me derivs.	92257-31-3	7.1%	Reproductive Tox. 2; STOT-RE 2
m-Xylene	1330-20-7	3.3%	Acute Tox 4(inhal)(dermal); Skin Irrit. 2; Flam Liq. 3
Hexylene Glycol	107-41-5	2%	Skin Irrit. 2; Eye Irrit. 2
Cumene	98-82-8	0.75%	Skin Sensitization 1; Eye Irrit 2
Ethylbenzene	100-41-4	0.6%	Asp. Tox. 1; Flam Liq. 2; Acute Tox. 4(inhal); STOT-RE 2
Naphthalene	91-20-3	0.6%	Carc. 2; Acute Tox. 4(oral)

Trade Secret Claim

When applicable, the specific concentration of each hazardous ingredient is considered a TRADE SECRET. Chemical names and identifiers will be listed in exact composition weight and name when not subject to trade secret exemptions.

Note

This product may contain other ingredients that are not required to be disclosed on this safety data sheet or product label in accordance with 19 CFR §1910.1200. Any ingredient not listed on either the SDS or label is not considered hazardous to health and shouldn't pose a risk to the user.

Section 4 – First Aid Measures**General First Aid Measures**

If medical attention is required then provide product label or safety data sheet to a medical professional.

If Inhaled

Move person to fresh air and keep comfortable for breathing. Administer artificial respiration if person is not breathing.

If on Skin

Wash with soap and water. Take off contaminated clothing and launder with detergent before reuse.

If Swallowed

Do NOT induce vomiting unless instructed to do so by a trained medical professional. Rinse mouth with water.

Most Important Symptoms

Skin irritation, eye irritation, respiratory irritation.

Indication of Immediate Medical Attention

Not anticipated to require immediate medical attention.

If in Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Rinse for at least 10 minutes to ensure proper flushing of material from eye.

Section 5 – Fire-Fighting Measures**Suitable Extinguishing Media**

Foam, CO2, or dry chemical.

Specific Hazards Arising from the Chemical

None known

Unsuitable Extinguishing Media

None known

Hazardous Combustion Products

Carbon dioxide, Carbon monoxide

Special Protective Equipment for Fire-Fighters

Use a self-contained breathing apparatus.

Precautions for Fire-Fighters

Use water fog to cool containers to prevent rupturing.

Section 6 – Accidental Release Measure

Personal Precautions

Ensure that the environment is physically safe to be in. Wear personal protective equipment before remedying an accidental release of mixture.

Protective Equipment

Wear gloves suitable for chemical resistance. Wear protective eye glasses/goggles. In the event of inadequate air ventilation use artificial breathing apparatuses

Emergency Procedures

Evacuate all non-essential personnel from the area. Shut off all sources of ignition. Ensure that all drains are covered to prevent environmental exposure. Follow methods found in next sub-section: Methods for Containment and Clean Up

Methods for Containment and Clean Up

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. Hike area and pump contents to a labeled, closed container. Absorb residue and sweep up. Place in a closed, labeled container. Remove all ignition sources.

References

See Section 7 on safe handling. Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Section 7 – Handling and Storage

Precautions for Safe Handling

Keep in original container before and after use. Read product label thoroughly and follow directions as provided in each label's Directions section. Wear protective equipment suggested in Section 8 even if product label does not recommend use of protective equipment

Conditions for Safe Storage

Store in all original containers/packaging as product label contains important information regarding proper use of chemical. Store appropriate to NFPA ratings found in Section 15 of this SDS.

Storage Incompatibilities

None known

Section 8 – Personal Protection

Exposure Limits

Ingredient	CAS	PEL	AGCIH	NIOSH
1,2,4-Trimethylbenzene	95-63-6	n/a	n/a	n/a
Solvent Naphtha (petroleum), heavy arom.	64742-94-5	n/a	n/a	n/a
2-Naphthalenol, 1-[[4-(phenylazo)phenyl]-azo]-, ar-heptyl ar',ar''-Me derivs.	92257-31-3	n/a	n/a	n/a
m-Xylene	1330-20-7	100 ppm	100 ppm	100 ppm
Hexylene Glycol	107-41-5	25 ppm	25 ppm	n/a
Cumene	98-82-8	50 ppm	50 ppm	50 ppm
Ethylbenzene	100-41-4	100 ppm	20 ppm	100 ppm
Naphthalene	91-20-3	10 ppm	10 ppm	10 ppm

General Note

Practice good industrial hygiene by washing hands thoroughly before and after use. Keep working areas clean. Ensure proper use of personal protective equipment as recommended in this section

Appropriate Engineering Controls

Ensure adequate mechanical ventilation capable of preventing vapor build up

Eye Protection

Eye glasses or goggles are recommended when using this product. Eye protection should fit user as to minimize risk of exposure as much as possible. Eye protection should protect against splash back and aerosolized mists which may affect eyes

Skin Protection

Wear long sleeves and pants to minimize exposure to skin. Wear protective gloves when using this product. Gloves should be chemically resistant to the material. Launder contaminated clothing before reuse. Wear an apron if usage of chemical is anticipated to expose user to a large quantity of material

Respiratory Protection

Mechanical ventilation is often sufficient for ensuring respiratory systems are better protected against exposure to material; however, should it be determined that material exposure limits are being concentrated as vapors then local ventilation should be utilized. If vapors exceed TLV use an approved respirator.

Section 9 – Chemical Properties

Appearance	Red liquid	Flammability	Not determined
Odor	Not determined	Upper Explosive %	Not determined
Odor Threshold	Not determined	Lower Explosive %	Not determined
pH	Not determined	Vapor Density	Not determined
Melting Point	Not determined	Relative Density	Not determined
Boiling Point	Not determined	Solubility	Not miscible
Flash Point	Not determined	Partition Coefficient	Not determined
Evaporation Rate	.08	Auto-Ignition Temp	Not determined

Section 10 – Stability and Reactivity

Reactivity

Material is not anticipated to be reactive

Conditions to Avoid

Ignition sources, open flames, strong oxidizers

Chemical Stability

Material is anticipated to be stable in normal storage conditions when not exposed to any incompatible materials

Incompatible Materials

Not determined

Possibility of Hazardous Reactions

None known

Hazardous Decomposition Products

Carbon dioxide, Carbon monoxide

Section 11 – Toxicological Information

Acute Toxicity Estimates

Oral – Contains no ingredient(s) considered toxic

Dermal – Contains no ingredient(s) considered toxic

Inhalation - Contains no ingredient(s) considered toxic

Skin Sensitization

Contains ingredients which pose a risk in this category

Aspiration Hazard

Contains no ingredient(s) which poses a risk in this category

Specific Target Organ Toxicity – Repeated Exposure

Contains no ingredient(s) which poses a risk in this category

Carcinogenicity

Contains ingredients which pose a risk in this category

Specific Target Organ Toxicity – Single Exposure

Contains ingredients which pose a risk in this category

Eye Damage/Irritation

Contains ingredients which pose a risk in this category

Germ Cell Mutagenicity

Contains no ingredient(s) which poses a risk in this category

Reproductive Toxicity

Contains no ingredient(s) which poses a risk in this category

Respiratory Sensitization

Contains no ingredient(s) which poses a risk in this category

Skin Corrosion/Irritation

Contains ingredients which pose a risk in this category

Delayed and Immediate Effects From Short- and Long-Term Exposure

Not determined

Symptoms related to the Chemical Characteristics

Not determined

National Toxicology Program Listing

Cumene, Naphthalene

International Agency for Research on Cancer Listing

m-Xylene, Cumene, Ethylbenzene, Naphthalene

Section 12 – Ecological Information

Ecotoxicity Estimated Values

Algae	Contains no ingredient(s) considered toxic
Fish	Contains no ingredient(s) considered toxic
Crustacea	Contains no ingredient(s) considered toxic

Mobility in Soil

Not determined

Other Adverse Effects

Not determined

Persistence and Degradability

Not biodegradable

Bioaccumulative Potential

Not determined

Section 13 – Disposal Consideration

Disposal of Empty Containers

Empty container can be recycled

Disposal of Material

Dispose of full or partially full containers by offering material to a licensed waste management company and follow all local regulations on proper disposal of material

Section 14 – Transportation Information

Hazard Placards



UN Number

1993

UN Shipping Name

Flammable Liquids, n.o.s.

UN Technical Name

n/a

Hazard Class

3 Flammable Liquid

Packaging group

III

Limited Quantity

<5L

Marine Pollutant

No

Transport in Bulk

Not determined

Special Precautions

Keep in original container. Do not store excessive weight on top

Section 15 – Regulatory Information

SARA 311	1,2,4-Trimethylbenzene; Solvent Naphtha (petroleum), heavy arom.; 2-Naphthalenol, 1-[[4-(phenylazo)phenyl] azo]-, ar-heptyl ar',ar''-Me derivs. m-Xylene; Hexylene Glycol; Ethylbenzene; Naphthalene
SARA 312	1,2,4-Trimethylbenzene; Solvent Naphtha (petroleum), heavy arom.; 2-Naphthalenol, 1-[[4-(phenylazo)phenyl] azo]-, ar-heptyl ar',ar''-Me derivs.; m-Xylene; Hexylene Glycol; Ethylbenzene; Naphthalene
SATA 313	1,2,4-Trimethylbenzene; Naphthalene; Cumene; m-Xylene; Ethylbenzene

TSCA Inventory List

All ingredients in this mixture are on the TSCA inventory list as active or exempt.

California

Prop65	WARNING: This product can expose you to chemicals including cumene, ethylbenzene, and naphthalene which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
ARB Designation	Not applicable
VOC Limit	Not applicable

HMIS®III (higher numbers indicate higher risk)

Health	2
Flammability	2
Physical Hazard	0

NFPA (higher numbers indicate higher risk)

Health	2
Flammability	2
Instability	0

Section 16 – Other Information

Revision History

June 2021	SDS Review and re-authoring
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General Disclaimer

All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publications of use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process

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Cogwork Consulting Group
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