


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				Regulated in quantities of 286 gallons or greater; see Section 14 for full information.
1	Slight	1	Health		
2	Moderate	1	Flammability		
3	High	1	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name:	Framework® 3.3 EC Herbicide
EPA Registration #:	1381-216
Product ID/Unity #:	10126226, 10126227, 10126609, 10126673, 10126674, 10126773, 10126794, 10127684, 1566198
Common Name:	Pendimethalin
Chemical Description:	Aniline derivative
Recommended Uses:	Agricultural Herbicide. See product label for complete list of uses and use sites.
Restrictions for Use:	See product label for information regarding restrictions on the use of this product.
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW: Dark amber liquid with moderate aromatic odor. May be fatal if swallowed and enters airways.	
POTENTIAL HEALTH EFFECTS:	
Eyes: May cause mild eye irritation. Skin: May cause slight skin irritation. Inhalation: Low inhalation toxicity. Inhalation of mist may cause slight irritation of the upper respiratory tract. Ingestion: Slightly toxic with single ingestion. May be fatal if swallowed and enters airways. Preexisting Conditions: Preexisting respiratory and dermal conditions may be aggravated by exposure. Chronic Health Effects: None known	
Carcinogenicity	NTP: Suspected (Naphthalene) IARC: Group 2B (Naphthalene) OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Aspiration Hazard Category 1; Skin Sensitization Category 1B; Carcinogenicity Category 2	
SIGNAL WORD: DANGER	
HAZARD STATEMENTS:	
May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Suspected of causing cancer.	
Percent of product with unknown toxicity: 1.0%	
PRECAUTIONARY STATEMENTS:	
Prevention: Do not breathe mist, vapors, spray. Contaminated work clothing must not be allowed out of the workplace. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection.	



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Framework® 3.3 EC Herbicide

Response: **If swallowed:** Immediately call a poison control center (1-877-424-7452) or doctor. Do NOT induce vomiting.
If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.
If exposed or concerned: Get medical attention.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with Federal, state and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Pendimethalin	37.4%	40487-42-1
Naphthalene	<10.0%	91-20-3
Solvent naphtha	<75.0%	64742-94-5
Solvent naphtha	<0.2%	64742-95-6
2-Methylnaphthalene	<12.0%	91-57-6
1-Methylnaphthalene	<6.0%	90-12-0
*Ingredients not specifically listed are non-hazardous and/or are considered to be confidential business information under 29 CFR 1910.1200(i).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

Ingestion: Seek medical attention or call a poison control center immediately for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eyes: Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.

Skin: Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, water spray, foam, dry chemical, carbon dioxide (CO₂)

Unsuitable Extinguishing Media: Water jet

Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.

Hazardous Combustion Products: Toxic gases may be formed in a fire situation; carbon monoxide, carbon dioxide, nitrogen oxide, and hydrocarbons.

Unusual Fire and Explosion Hazards: None known

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Environmental Precautions: Keep spilled product from entering sewers or waterways.

Methods for Containment: Contain spilled product by diking area with sand or earth.

Methods for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop, or sweep up material and place in a container for disposal. Do not place spilled material back in original container.

Other Information: Spills of this product may require reporting under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as the product contains Naphthalene with a reportable quantity (RQ) of 100 lbs. See Section 15 for additional information.

SECTION 7: HANDLING AND STORAGE

Handling: RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS.
 PESTICIDE APPLICATORS AND WORKERS must refer to the pesticide product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.
Storage: Store in secured, cool, dry areas designated specifically for pesticides, away from children, feed and food products and sources of heat. Keep containers closed when not in use. **See pesticide product label for additional storage information.**
Minimum Storage Temperature: 32°F
Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Component:	OSHA PEL	ACGIH TLV	NIOSH REL
Naphthalene (CAS #91-20-3)	50 mg/m ³ ; 10 ppm (TWA)	10 ppm (TWA) 15 ppm skin (STEL); (skin)	
1-methylnaphthalene (CAS #90-12-0)		0.5ppm (TWA) (skin)	
2-methylnaphthalene (CAS #91-57-6)		0.5ppm (TWA) (skin)	

NOTE TO END USERS: PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING LISTED IN THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PESTICIDE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING.

Respiratory Protection: Where airborne exposure to concentrations greater than the above listed exposure limits is likely, use a NIOSH approved respirator with cartridges/canisters approved for pesticides and organic vapors.

Engineering Controls: **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Protective Gloves: Wear chemical resistant gloves to prevent skin exposure.
Eye Protection: Wear chemical goggles or safety glasses and full-face shield. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area.
Other Protective Clothing or Equipment: Wear long sleeve shirt, long pants and chemical resistant shoes plus socks to prevent skin exposure.

Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Specific Gravity (H₂O=1):	1.07 (typical)
Vapor Pressure (mm Hg):	Not determined	Density (lbs/gallon):	8.93 (typical)
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	Not determined
Solubility in Water (wt %):	Emulsifiable, insoluble	Boiling Point/Range:	Not determined
Viscosity:	Approx. 13 m/Pa.s @ 23°C	pH (1% dispersion):	6.0 – 7.0
Appearance and odor:	Dark amber liquid with moderate aromatic odor	Flash Point:	>219°F (based on solvent)

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known
Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions.
Possibility of Hazardous Reactions: Will not occur

Conditions to Avoid: Avoid all sources of ignition: heat, sparks, and open flame. Avoid prolonged storage. Avoid electrostatic discharge. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures. Avoid contamination.

Incompatible Materials: Nitric acid, sulfuric acid, oxidizing agents, strong alkalis.

Hazardous Decomposition Products: Toxic gases may be formed in a fire situation or under prolonged thermal loading; carbon monoxide, carbon dioxide, nitrogen oxide, and hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Eye Effects: Causes mild eye irritation (rabbit)
Skin Effects: Causes mild skin irritation; LD50 >2,000 mg/kg (rats); Skin sensitizing effects were not observed in animal studies.
Acute Inhalation Effects: LC50 >5.35 mg/L (rats)(4hr)
Acute Oral Effects: LD50 = 3,956 mg/kg (rats)
Specific Target Organ: None known
Toxicity:

CHRONIC TOXICITY

Chronic Effects: Repeated inhalation of naphthalene may cause damage to the olfactory epithelium.
Carcinogenicity: Naphthalene is considered to be a suspected human carcinogen.
Mutagenicity: None known
Teratogenicity: None known
Reproductive Toxicity: None known

POTENTIAL HEALTH EFFECTS:

Eyes: May cause mild eye irritation.
Skin: May cause slight skin irritation.
Inhalation: Low inhalation toxicity. Inhalation of mist may cause slight irritation of the upper respiratory tract.
Ingestion: Slightly toxic with single ingestion. May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity: Pendimethalin: *Oncorhynchus mykiss* 96 hr LC50 = 0.089 mg/L
Aquatic Invertebrate Acute Toxicity: Pendimethalin: *Daphnia magna* 48 hr EC50 = 0.4 mg/L
Aquatic Plant Toxicity: Pendimethalin: Green algae 72 hr EC50 = 0.0337 mg/L
Bird Acute and Prolonged Toxicity: Pendimethalin: Mallard duck LD50 = 1,421 mg/kg
Honeybee Toxicity: Pendimethalin: 49.8 ug/bee

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility: Not determined
Persistence and degradability: Pendimethalin is not readily biodegradable by OECD criteria.
Bioaccumulative Potential: Not determined
Other adverse effects: Not determined

SECTION 13: DISPOSAL CONSIDERATIONS	
Waste:	Dispose of in accordance with applicable Federal, state and local laws and regulations.
Container:	Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations. See pesticide product label for full instructions on disposal.
RCRA Characteristics:	It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORT INFORMATION	
DOT: (Ground)	This product is not regulated by the U.S. DOT as a hazardous material for ground shipment in quantities of less than 286 gallons. For quantities of 286 gallons or greater: UN3082, Environmentally hazardous substance, liquid, n.o.s. (naphthalene), 9, PG III, RQ
IMDG: (Sea)	Not determined
IATA: (Air)	Not determined
TDG: (Canada)	Not determined

SECTION 15: REGULATORY INFORMATION	
TSCA Inventory: This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.	
SARA Title III Information:	
Section 302 - Extremely hazardous substances: None listed	
Section 311/312 – Hazard Categories: Immediate (Acute), Delayed (Chronic)	
Section 313 – The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:	
Naphthalene (CAS #91-20-3) <10.0%%; Pendimethalin (CAS #40487-42-1) 37.4%	
CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):	
Naphthalene (CAS #91-20-3) has an RQ of 100 lbs reached with approximately 161 gallons of product.	
EPA Registration Information: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:	
CAUTION Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing.	
California Proposition 65: WARNING: This product contains a chemical known to the state of California to cause cancer and/or reproductive harm.	
U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):	
Chemical Name	CAS # State(s)
Pendimethalin	40487-42-1 NJ
1-Methylnaphthalene	90-12-0 MA, PA
2-Methylnaphthalene	91-57-6 IL, NJ, PA
Naphthalene	91-20-3 IL, MN, NJ, PA, RI
Canadian Domestic Substances List: Not determined	
WHMIS Classification: This product is not approved for use in Canada. WHMIS classification is not determined.	

SECTION 16: OTHER

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

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