Safety Data Sheet

NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY
0	Least			Regulated for transport in quantities of 119 gallons or greater. (See Section 14 for additional information.)
1	Slight	2	Health	
2	Moderate	1	Flammability	
3	High	0	Reactivity	
4	Severe			

SECTION 1: IDENTIFICATION

Product Name:	Tacoma® 1EC Herbicide
EPA Registration #:	264-666-1381
Product ID/Unity #:	10126330, 10126331, 10127527, 10127929, 10135593, 10136863, 1567796
Common Name:	Fenoxaprop-P-ethyl herbicide
Chemical Description:	Fenoxaprop-P-ethyl herbicide
Recommended Uses:	Agricultural Herbicide. See product label for complete list of recommended uses and use site.
Restrictions for Use:	See product label for information regarding restrictions on the use of this product

Manufactured For:	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)
WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	**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: Light yellow liquid with aromatic odor. Causes eye and skin irritation. May be fatal if swallowed and enters airways.

POTENTIAL HEALTH EFFECTS:
Eyes: Causes serious eye irritation.
Skin: Causes serious skin irritation.
Inhalation: May be harmful if inhaled.
Ingestion: Harmful if swallowed.
Preexisting Conditions: Individuals with pre-existing diseases of the respiratory system, skin and eyes may have increased susceptibility to excessive exposures
Chronic Health Effects: See Section 11 for additional information

Carcinogenicity NTP: Not listed IARC: Naphthalene (Group 2B) OSHA: Not listed

OSHA HCS 2012 CLASSIFICATION: Eye Damage/Irritation Category 2A; Skin Irritation Category 2; Aspiration Hazard Category 1

SIGNAL WORD: WARNING

HAZARD STATEMENTS:
Causes serious eye irritation.
Causes skin irritation.
May be fatal if swallowed and enters airways.

Percent of product with unknown toxicity: 0%

PRECAUTIONARY STATEMENTS:
Prevention: Wash hands thoroughly after handling. Wear eye and face protection. Wear protective gloves.

Continued on next page

Response:	If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If swallowed: Immediately call a poison control center (1-877-424-7452) or doctor. Do Not induce vomiting.
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. #
Fenoxaprop-P-ethyl	11.53%	71283-80-2
Mefenpyr-diethyl	3.18%	135590-91-9
Solvent Naptha (petroleum), heavy aromatic	57.40%	64742-94-5
Ethoxy (7) tridecanol	15.50%	78330-21-9
Naphthalene	8.10%	91-20-3

*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 immediately.
Ingestion:	Seek medical attention or call a poison control center immediately. Do not induce vomiting unless told 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 them. Flush skin with water, and then wash with soap and water. If available, wash with polyethylene glycol 400 and then water. Seek medical attention if skin irritation persists.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use foam, sand, carbon dioxide, water spray

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: Thermal decomposition may include hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides.

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: Do not release product into soil/subsoil or let it enter sewer or waterways.

Methods for Containment: Contain spilled liquid 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. After decontamination, spill area may be washed with water. Collect wash water for approved disposal.

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 cool, dry area away from children, feed and food products in an area away from incompatible substances. Protect packaging from physical damage. Protect from exposure to fire. Maintain product above minimum storage temperature.
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
Fenoxaprop-P-ethyl (2.6 mg/m3 TWA) Bayer Occupational Exposure Standard			
Mefenpyr-diethyl (10 mg/m3) Bayer Occupational Exposure Standard			
Naphthalene	50 mg/m3 / 10 ppm (PEL) 75 mg/m3 / 15 ppm (STEL) 50 mg/m3 / 10 ppm (TWA)	10 ppm (TWA) 15 ppm (STEL)	50 mg/m3 / 10 ppm (REL) 75 mg/m3 / 15 ppm (STEL)

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: Wear respiratory protection if inadequate ventilation. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of organics vapors and general particulates.

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.
Eye Protection: To avoid contact with eyes, 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 shoes plus socks to prevent prolonged or repeated 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 (H_2O=1):**	1.03 (typical)
Vapor Pressure :	Not determined	**Density (lbs/gallon):**	8.6 lbs/gallon (typical)
Vapor Density (Air=1):	Not determined	**Freezing Point:**	Not determined
Solubility in Water :	Emulsifiable	**Boiling Point/Range:**	Not determined
Viscosity, Dynamic:	10.1 mPa.s (40°C)	**pH (1% emulsion in water):**	6.7
Appearance and odor:	Light yellow liquid with aromatic odor	**Flash Point:**	108°C (226°F)

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known
Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling
Possibility of Hazardous Reactions: Will not occur.
Conditions to Avoid: Freezing, heat, flames and sparks
Incompatible Materials: No data available
Hazardous Decomposition Products: See Section 5 for thermal decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Eye Effects:	Causes serious irritation to the eyes. (rabbit)
Skin Effects:	Causes serious irritation to the skin. (rabbit); Sensitizing effects were not observed in animal studies (guinea pig); LD50 >5,000 mg/kg (rat)
Acute Inhalation Effects:	LC50 >5.4 mg/l at 4 hours (rat)
Acute Oral Effects:	LD50 = 3,254 mg/kg (rat)
Specific Target Organ Toxicity:	Fenoxaprop-P-ethyl caused specific target organ toxicity in experimental animal studies in mice in the following organ(s): kidneys

CHRONIC TOXICITY

Chronic Effects:	Not determined
Carcinogenicity:	Fenoxaprop-P-ethyl demonstrated no carcinogenic potential in a lifetime feeding study in rats. Fenoxaprop-P-ethyl caused an increased incidence of liver tumors in mice at high doses. Fenoxaprop-P-ethyl causes tumors through peroxisome proliferation. The mechanism that triggers tumors in rodents and the type of tumors observed are not relevant to humans. The product contains ≥1% Naphthalene. Naphthalene caused an increased incidence of tumors after chronic inhalation of high vapor concentrations in the respiratory tract. The tumors seen with naphthalene were caused through a non-genotoxic mechanism which is not relevant at low doses.
Mutagenicity:	No mutagenic effects known.
Teratogenicity:	No teratogenic effects known.
Reproductive Toxicity:	No reproductive toxicity known.

POTENTIAL HEALTH EFFECTS:
Eyes: Causes serious eye irritation.
Skin: Causes serious skin irritation.
Inhalation: May be harmful if inhaled.
Ingestion: Harmful if swallowed.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: The ecological data given are those of the active ingredient. Do not release untreated into natural waters. There is a high probability that the product is not acutely harmful to fish. There is a high probability that the product is acutely harmful to aquatic invertebrates.

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity:	*Oncorhynchus mykiss* LC50 (96 hr) = 1.9 mg/l (Test conducted with a similar formulation)
Aquatic Invertebrate Acute Toxicity:	*Daphnia magna* EC50 (48 hr) = 4.2 mg/l (Test conducted with a similar formulation)
Aquatic Plant Toxicity:	*Pseudoirchneriella subcapitata* EC50 (72 hr): 1.47 mg/l
Bird Acute and Prolonged Toxicity:	Not determined
Honeybee Toxicity:	Not determined

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility:	Fenoxaprop-P-ethyl is immobile in soil. Mefenpyr-diethyl is slightly mobile in soils.
Persistence and degradability:	Fenoxaprop-P-ethyl and Mefenpyr-diethyl are not rapidly biodegradable.
Bioaccumulative Potential:	Fenoxaprop-P-ethyl has a bioconcentration factor (BCF) 338 and Mefenpyr-diethyl has a bioconcentration factor (BCF) 232. Neither chemical bioaccumulates.
Other adverse effects:	None known.

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)	Not regulated as a hazardous material in quantities less than 119 gallons. Packages >119 gallons and <158 gallons: UN3082, Environmentally Hazardous Substances, Liquid, N.O.S., 9, PG III, Marine Pollutant (Fenoxaprop P-ethyl) Package sizes greater than or equal to 158 gallons: UN3082, Environmentally Hazardous Substances, Liquid, N.O.S., 9, PG III, RQ (Naphthalene), Marine Pollutant (Fenoxaprop P-ethyl)
IMDG: (Sea)	Classification not determined.
IATA: (Air)	Classification not determined.
TDG: (Canada)	Classification 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)

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)

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 158 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.

WARNING
Causes substantial but temporary eye injury.
Causes skin irritation.
Harmful if swallowed.
Do not get in eyes, on skin, or on clothing.
Wash thoroughly with soap and water after handling.

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)
Naphthalene	91-20-3	CT, MN, NJ

Canadian Domestic Substances List: Not determined. Product is not registered for sale in Canada.

WHMIS Classification: Not determined. Product is not registered for sale in Canada.

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.

Revision Date: May 15, 2015 Supersedes document dated: February 23, 2010
Sections Revised: All