

PRE-Tector™ PLUS EC Herbicide

SDS REVISIONS: Formulation

DATE OF ISSUE: 01/11/2018

SUPERSEDES:

## PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** 

**Product Name** PRE-Tector™ PLUS EC Herbicide

Other means of identification

**Product Code** PST-0018 **Synonyms** None Registration Number(s) 34704-1115

Recommended use of the chemical and restrictions on use

**Recommended Use** Herbicide.

Uses advised against No information available

Details of the supplier of the safety data sheet

**Manufacturer Address** LOVELAND PRODUCTS, INC. P.O. Box 1286

Greeley, CO 80632-1286

Emergency telephone number

**Company Phone Number Emergency Telephone** 

1-888-LPI-CUST (574-2878) Chemtrec 1-800-424-9300

Medical Emergencies: 1-866-944-8565

US regulations require reporting spills of this material that could reach any surface waters.

The toll-free phone number for the US Coast Guard National Response Center is

1-800-424-8802

## 2. HAZARDS IDENTIFICATION

# Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 3 - (H331)
Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 1B - (H350)

#### Label elements



**DANGER** Signal word

H317 - May cause an allergic skin reaction **Hazard statements** 

H331 - Toxic if inhaled H350 - May cause cancer

P201 - Obtain special instructions before use **Precautionary Statements -**



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Prevention P202 - Do not handle until all safety precautions have been read and understood

P281 - Use personal protective equipment as required P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P271 - Use only outdoors or in a well-ventilated area

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves

Precautionary Statements - P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

Response P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

P311 - Call a POISON CENTER or doctor/physician

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

**Precautionary Statements -** P405 - Store locked up

Storage P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements -**

**Disposal** 

P501 - Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical Name	CAS No	Weight-%	Trade Secret
Pendimethalin	40487-42-1	15 - 40	*
Naphthalene, 2-methyl	91-57-6	7 - 13	*
Naphthalene	91-20-3	3 - 7	*
Naphthalene, 1-methyl	90-12-0	3 - 7	*

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

OSHA Hazard Communication 29 CFR 1910.1200



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## 4. FIRST AID MEASURES

#### Description of first aid measures

General advice Get medical attention if symptoms occur.

Eye contact Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical

attention. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing

eye. Call a poison control center or doctor for treatment advice.

**Skin contact**Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for treatment advice.

**Inhalation** Remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor

for treatment advice.

**Ingestion** Call a poison control center or doctor for treatment advice. Have person sip a glass of water

if able to swallow. Do NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person.

**Self-protection of the first aider**Use personal protective equipment as required.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Symptoms may be delayed. FOR A MEDICAL EMERGENCY

INVOLVING THIS PRODUCT CALL: 1-866-944-8565. Take container, label or product

name with you when seeking medical attention.

Note to physicians 
No specific antidote. Treatment of exposure should be directed at the control of symptoms

and the clinical condition of the patient.

Antidotes No data available

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Use CO2, dry chemical, or foam

#### Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

# **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

# Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



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# **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

**Personal precautions**Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into

surface water or sanitary sewer system. See Section 12 for additional ecological

information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover

powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to

properly labeled containers. Soak up with inert absorbent material.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not

eat, drink or smoke when using this product. Use personal protective equipment as

required. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a cool, well-ventilated place.

**Incompatible materials**None known based on information supplied.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

**Appropriate engineering controls** 

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection In case of inadequate ventilation or risk of inhalation of dusts or vapors, use suitable

respiratory equipment such as MSHA/NIOSH approved respirator with approved filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure

concentrations are unknown.

**General Hygiene Considerations** When using do not eat, drink or smoke. Wash contaminated clothing before reuse.



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No data available

No data available

No data available

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SUPERSEDES: 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Liquid Liquid **Appearance** Color Dark amber Odor Aromatic

**Odor threshold** No data available

**Property** Values (Remarks - Method)

2 - 3 (NEAT) pН

approximately -13 / Freezing Point Melting point / freezing point

(applies to solvent) °C

approximately 250 (applies to solvent) **Boiling point** 

approximately 104 (based on Flash point

components)

**Evaporation rate** No data available

Flammability (solid, gas) No data available No information available

Flammability Limit in Air

**Upper flammability limit:** appromimately 5.6% (V) [applied to

solvent]

Lower flammability limit: appromimately 0.7% (V) [applied to

solventl

Vapor pressure approximately 3.724 Vapor density No data available

**Specific Gravity** 1.07 g/ml

No data available Water solubility Solubility in other solvents No data available No data available **Partition coefficient** 

**Autoignition temperature** No data available **Decomposition temperature** No data available Kinematic viscosity No data available

**Dynamic viscosity** approximately > 1 mPa s

No data available **Explosive properties** No data available **Oxidizing properties** 

Other Information

**VOC Content (%)** No data available **Density** 8.93lbs/gal

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.



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# **10. STABILITY AND REACTIVITY**

Reactivity
No data available

**Chemical stability** 

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** 

None under normal processing.

**Conditions to avoid** 

Strong oxidizing agents.

**Incompatible materials** 

None known based on information supplied.

**Hazardous Decomposition Products** 

Carbon oxides. Nitrogen oxides (NOx).



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11. TOXICOLOGICAL INFORMATION

Acute toxicity of the formulated product:

Oral LD<sub>50</sub> 3,506 mg/kg > 2,000 mg/kg > 5.44 mg/l (rat, 4 hr)

**Skin corrosion/irritation Serious eye damage/eye irritation**Mild skin irritant.

Mild Irritant.

**Sensitization** No sensitization responses were observed.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Germ cell mutagenicity No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	X
91-20-3				

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Chronic toxicity Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated

exposure. May cause adverse effects on the bone marrow and blood-forming system. May

cause adverse liver effects.

Target Organ Effects blood, Central nervous system, Eye damage/irritation, kidney, liver, Skin.

**Aspiration hazard** No information available.

#### Information on likely routes of exposure

Product Information No data available

**Inhalation** No data available.

Eye contact No data available.

**Skin contact** No data available.

**Ingestion** No data available.

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

Other adverse effects No information available



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## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.

Contaminated packaging

Do not reuse container.

	Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Г	Naphthalene	U165	Included in waste streams:	-	U165
	91-20-3		F024, F025, F034, F039,		
			K001, K035, K060, K087,		
			K145		

Chemical Name	RCRA - Halogenated	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
	Organic Compounds			
Naphthalene	-	-	Toxic waste	-
91-20-3			waste number F025	
			Waste description:	
			Condensed light ends, spent	
			filters and filter aids, and	
			spent desiccant wastes from	
			the production of certain	
			chlorinated aliphatic	
			hydrocarbons, by free	
			radical catalyzed processes.	
			These chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain lengths	
			ranging from one to and	
			including five, with varying	
			amounts and positions of	
			chlorine substitution.	

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

UN/ID no Not regulated Proper shipping name Not regulated

U.S. Surface Freight Classification: COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320,

SUB 2: CLASS: 60)



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# 15. REGULATORY INFORMATION

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 2 Flammability 0 Physical hazards 0 Personal protection X

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Severe

# **US Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Pendimethalin - 40487-42-1	1.0
Naphthalene - 91-20-3	0.1

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Naphthalene 91-20-3	100 lb	X	X	X

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Naphthalene	100 lb 1 lb	=	RQ 100 lb final RQ
91-20-3			RQ 45.4 kg final RQ RQ 1 lb final
			RQ
			RQ 0.454 kg final RQ

#### **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Naphthalene - 91-20-3	Carcinogen

US EPA Waste Number U165

U.S. EPA Label Information

**EPA Registration Number** 34704-1115

**EPA Statement** 

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

#### Difference between SDS and EPA Pesticide label



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Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

## **16. OTHER INFORMATION**

Prepared By Registrations and Regulatory Affairs

Reviewed By Environmental Health and Safety

 Issue Date
 01/11/2018

 Revision Date
 01/12/2018

**Revision Note** 

No information available

PRE-Tector™ PLUS EC Herbicide is a registered trademark of Loveland Products, Inc.

#### **Disclaimer**

This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

**End of Safety Data Sheet**