

Safety Data Sheet

Preparation Date 16-May-2016 Revision date 02-Jan-2019 Revision Number: 2

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product Description: Satellite Flex Herbicide

Other means of identification

Product code 12-SATFLEX Registration number(s) 70506-324

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

Uses advised against Activities contrary to label recommendation

Non labeled activities

Details of the Supplier of the Safety Data Sheet

Supplier Address

UPL NA Inc.

630 Freedom Business Center

Suite 402

King of Prussia, PA 19406

Emergency telephone number

Company Phone Number 1-800-438-6071

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 673-6671 (24hrs)

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 (Vapors)	Category 3
Skin sensitization	Category 1
Aspiration toxicity	Category 1

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard Statements

Toxic if inhaled

May cause an allergic skin reaction

May be fatal if swallowed and enters airways



Appearance clear Physical state Liquid Odor aromatic

Precautionary Statements - Prevention

Do not get in eyes, on skin, or on clothing

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

- Very toxic to aquatic life with long lasting effects
- · Very toxic to aquatic life
- · May be harmful in contact with skin

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Pendimethalin	40487-42-1	39.8
[N-(1-ethylpropyl)-3,4-dimethyl-2,6-dini		
trobenzeneamine]		
Solvesso 200	64742-94-5	40
Propylene carbonate	108-32-7	5

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

4. First aid measures

FIRST AID MEASURES

Eye contact Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact

lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or

doctor for treatment advice.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

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

artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or

doctor for further treatment advice.

Ingestion Call a physician or poison control center immediately. Never give anything by mouth to an

unconscious person. Do not induce vomiting without medical advice.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and

Effects

no data available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Contains a petroleum distillate - vomiting may cause aspiration pneumonia. Vomiting may

cause aspiration pneumonia due to the ingredients. Because of the increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent,

vomiting should be induced only under direction of a physician.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media no data available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Carbon monoxide. Carbon oxides. Hydrocarbons. Oxides of nitrogen.

Explosion data

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Use personal protective equipment. Avoid contact with skin

and eyes. Provide adequate ventilation.

Environmental Precautions

Environmental precautionsConsult a regulatory specialist to determine appropriate state or local reporting

requirements, for assistance in waste characterization and/or hazardous waste disposal

and other requirements listed in pertinent environmental permits.

Methods and material for containment and cleaning up

Methods for Clean-Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Handling Wear personal protective equipment. Do not eat, drink or smoke when using this product.

Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin and eyes. Remove and wash contaminated clothing before re-use. Pesticide applicators

and workers must refer to product labeling and directions for use.

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep away from open flames, hot surfaces and sources

of ignition. Store in original container. Store in cool/well-ventilated place.

incompatible materials Strong bases. Strong oxidizing agents.

8. Exposure Controls/Personal Protection

aromatic

Exposure guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Engineering controls Investigate engineering techniques to reduce exposures. Local mechanical exhaust

ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design

of exhaust systems.

Personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Where there is potential for eye contact have eye flushing

equipment available.

Skin protection Wear protective gloves/clothing.

Respiratory protection Where airborne exposure is likely, use NIOSH approved respiratory protection equipment

appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection

Odor

ASTM D93

programs must comply with 29 CFR 1910.134.

General hygiene considerations

Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state Liquid Appearance clear

color dark amber

Property VALUES Remarks/ • Method

pH 5.26

Melting point/freezing point no data available

Boiling Point/Range No information available

Boiling Point/Range No information available Flash Point 100 °C / 212 °F

Evaporation Rate No information available

Flammability (solid, gas)

No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
vapor pressure
Vapor Density

No information available
No information available
No information available

Specific gravity 1.069 gm/cm3

Water solubility

Solubility in Other Solvents

No information available
No information available
Partition coefficient: n-octanol/waterNo information available

Autoignition temperature
Decomposition temperature
Viscosity, kinematic
Dynamic viscosity
Explosive properties

no data available
No information available
No information available
No information available

Oxidizing properties No information available

OTHER INFORMATION

Softening point No information available molecular weight No information available

12-SATFLEX Satellite Flex Herbicide

VOC Content No information available Liquid Density No information available

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

Keep away from open flames, hot surfaces and sources of ignition.

incompatible materials

Strong bases. Strong oxidizing agents.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides (NOx). Hydrocarbons.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information

Satellite Flex

Acute oral LD50 (rat) = 3129 mg/kg Acute dermal LD50 (rat) = 5000 mg/kg Acute inhalation LC50 (rat) = > 2.09 mg/L

Inhalation Harmful by inhalation.

Eye contact Causes substantial but temporary eye injury.

Skin contact Prolonged skin contact may cause skin irritation.

Ingestion HARMFUL IF SWALLOWED.

Information on Toxicological Effects

Symptoms No information available.

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

SensitizationNo information available.Mutagenic effectsno data available.CarcinogenicityPendimethalin:

Carcinogenicity: In long term studies with mice no carcinogenic effect observed.

Reproductive toxicity: No indication of reproductive effects.

Developmental/teratogenicity: No indication of developmental or teratogenic effetcs

observed.

Genetic toxicity: No mutagenic effect in tests with microorganisms or mammals.

Human experience: Discoloration of urine to a dark orange-yellow coloring following heavy

exposure to dust of pendimethalin in workers.

Although other structurally related compounds (nitro and aromatic compunds) have noted

methemoglobinemia, pendimethalin is NOT associated with methemoglobinemia.

Reproductive effects
STOT - Single Exposure
STOT - Repeated Exposure
Aspiration hazard
Not Available.
no data available.
No information available.

Numerical Measures of Toxicity - Product information

LD50 Oral 3129 mg/kg (rat) **LD50 Dermal** 5000 mg/kg (rat)

LC50 Inhalation Inhalation LC50 > 2.09 mg/l (rat)

12. Ecological Information

ecotoxicity

Pendimethalin:

Rainbow trout 96 hr LC50 = 0.89 mg/L Daphnia Magna 48 hr EC50 = 0.979 mg/L Green algae 72 hr EC50 = 0.0081 mg/L Mallard duck LD50 = 1421 mg/kg Honey Bee LD50 = 49.8 ug/bee

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
Solvesso 200	2.9 - 6.1
64742-94-5	
Propylene carbonate	0.48
108-32-7	

Other Adverse Effects

no data available

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is

a violation of Federal law. If the wastes cannot be disposed of by use or according to label

instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packaging Refer to product label.

14. Transport Information

DOTWhen shipped domestically by highway in non-bulk containers this product can be shipped

as not regulated.

When shipped in bulk, by vessel, or internationally use the IMDG shipping description:

<u>TDG</u> When shipped in Canada domestic highway non-bulk this product can be shipped as Not

regulated as per TDG 1.45.1 In bulk - use IMDG description

IATA

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Pendimethalin)

Hazard class 9

Packing group PG II

Description IMDG - Marine Pollutant

IMDG

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (pendimethalin)

Hazard class 9
Packing group PG III
Environmental hazards Yes

15. Regulatory 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:

signal word WARNING

Ventilation Control PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO

PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA

WORKER PROTECTION STANDARD 40 CFR PART 170.

Keep out of Reach of Children.

Contains petroleum distillates. Causes substantial but temporary eye injury. Harmful if swallowed. Toxic to fish.

International Inventories

USINV Not present
DSL/NDSL Not present
EINECS/ Not Present

ELINCS

ENCS Not Present
China Not Present
KECL Not Present
PICCS Not Present
AICS Not Present
TSCA Not Present
Not Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Federal Regulations

SARA 313

Υ

CERCLA

Not applicable

CERCLA RCRA

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Propylene carbonate 108-32-7 (5)			Х	

State Regulations

State Right-to-Know

Not applicable

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-324

16. Other Information

NFPA HEALTH 1 flammability 0 Instability 0 Physical hazard -

Preparation Date 16-May-2016 Revision date 02-Jan-2019 Revision Summary

Update logo Update section 1 Update Section 16***

<u>Disclaimer</u>

UPL NA Inc. believes that the information and recommendations container herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPL NA Inc. and UPL NA Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

End of SDS