



Safety Data Sheet

Preparation Date 20-Oct-2021

Revision date 17-Jul-2024

Revision Number: 6

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

Identification of the product

Product Description Select 1EC Herbicide

Other means of identification

Internal SDS code CAN-002

UN/ID no NA1993

Registration number(s) PMRA Reg No: 34250

Recommended use of the chemical and restrictions on use

Recommended use Insecticide.

Uses advised against Activities contrary to label recommendation

Details of the Supplier of the Safety Data Sheet

Supplier Address

UPL Agrosolutions Canada Inc .

PO Box 12219

Research Triangle Park, NC,

27709

Emergency telephone number

Company Phone Number 610-223-2180

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison and Drug Safety (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)

Skin Corrosion/Irritation	Category 3
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
FLAMMABLE LIQUIDS	Category 4

Label elements

EMERGENCY OVERVIEW

WARNING

Hazard Statements

Causes mild skin irritation

May cause damage to organs through prolonged or repeated exposure

Suspected of causing cancer

Combustible

**Appearance** Off-white To Tan**Physical state** Liquid**Odor** Petroleum distillates**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection
Do not get in eyes, on skin, or on clothing
Contaminated work clothing should not be allowed out of the workplace

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)**OTHER INFORMATION**

- No information available

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Clethodim	99129-21-2	13.57
Hydrocarbons, C10-C13, aromatics	64742-94-5	7.65
Naphthalene	91-20-3	<1

*The exact percentage (concentration) 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 soap and plenty of water removing all contaminated clothes and shoes. Call a poison control center or doctor for treatment advice.
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.
Ingestion	Call a physician or poison control center immediately. Clean mouth with water. Never give anything by mouth to an unconscious person.

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.

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 Sulfur oxides. Nitrogen oxides (NOx).**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**

Use personal protective equipment. Avoid contact with skin and eyes. Take precautionary measures against static discharges.

Environmental Precautions**Environmental precautions**

Consult 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**

Avoid contact with skin and eyes. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Ensure that eyewash stations and safety showers are close to the workstation location. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities**Storage**

Keep container tightly closed in a dry and well-ventilated place.

incompatible materials

OXIDIZERS.

8. Exposure Controls/Personal Protection**Exposure guidelines**

Chemical name	ACGIH TLV	OSHA PEL
Naphthalene	TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m ³ (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m ³

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	Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact.
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 programs must comply with 29 CFR 1910.134.

General hygiene considerations

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

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Off-white To Tan	
Physical state	Liquid	
Odor	Petroleum distillates	
color	No information available	
Property	VALUES	Remarks/ Method
pH	3.7	(1% aq)
Melting point/freezing point		None known
Boiling Point/Range		None known
Flash Point	65 C / 149 F	Closed cup
Evaporation Rate		None known
Flammability (solid, gas)		None known
Specific gravity	0.931 @ 25C	None known
Bulk density		None known
Water solubility		None known
Solubility in Other Solvents	Dispersible in water	None known
Partition coefficient: n-octanol/water		None known
Autoignition temperature		None known
Decomposition temperature		None known
Viscosity		None known

9.2 OTHER INFORMATION- NONE

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

OXIDIZERS.

Hazardous decomposition products

Nitrogen oxides (NO_x). Oxides of sulfur.

11. Toxicological Information

Information on Likely Routes of Exposure**Product information**

Select 1EC Herbicide:

Acute oral LD50 (rat) >5000 mg/kg

Acute Dermal LD50 (rat) >2000 mg/kg

Acute Inhalation LC50 (rat) >5.238 mg/L/4hr

Inhalation

Based on available data, the classification criteria are not met.

Eye contact

May cause slight irritation.

Skin contact

Based on available data, the formulation can cause skin irritation.

Ingestion

Based on available data, the classification criteria are not met.

Information on Toxicological Effects**Symptoms**

No information available.

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

Based on test data, the formulation is not a skin sensitizer.

Mutagenic effects

no data available.

Carcinogenicity

Clethodim technical =

Cause liver effects and anemia in chronic studies in rodent and dogs.

non carcinogenic in lifetime feeding studies in rats and mice.

Not a reproductive toxicant in a 2 generation study in rats

Not a primary developmental oxican in rats/rabbits.

Not mutagenic or genotoxic based on overall weight of evidence in vitor and in vivo tests.

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

Reproductive effects

Not Available.

STOT - Single Exposure

no data available.

STOT - Repeated Exposure

no data available.

Aspiration hazard

No information available.

Numerical Measures of Toxicity - No information available**LD50 Oral**

5000 mg/kg

LD50 Dermal

> 5000 mg/kg

LC50 Inhalation

> 20 mg/l (1 hr)

12. Ecological Information

ecotoxicity

Toxic to aquatic organisms

Clethodim (technical) = FISH toxicity
Rainbow trout 96 hr LC50 = 65 mg/L
Bluegill sunfish 96 hr LC50 = 120 mg/L
AVIAN toxicity
Bobwhite quail LC50 = >6000 ppm
Mallard duck LC50 = >6000 ppm

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
Hydrocarbons, C10-C13, aromatics 64742-94-5	2.9 - 6.1
Naphthalene 91-20-3	3.6

Other Adverse Effects

no data available

13. Disposal Considerations**Waste Treatment Methods****Waste Disposal Method**

Pesticide wastes can be 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.

Chemical name	Naphthalene
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14. Transport Information**DOT**

When shipped domestically IN NON-BULK packages by highway this material is classed as a combustible liquid and as such is not subject to the DOT regulations per 49 CFR 173.150(f) (2) and therefore can be designated as Not Regulated

This is a US transportation regulation only; as US only recognizes combustible liquids, and this material is not regulated for international transportation.

When shipped domestically (US) in bulk - >119 gallon capacity - this material is classed as a combustible as per 49 CFR 173.150 (f) as such the documentation will be noted as NA1993, Combustible Liquids, n.o.s. , PGIII

UN/ID no
Proper shipping name
Hazard class
Packing group

NA1993
Combustible liquid, n.o.s (Petroleum distillates)
Comb Liq
PG III

TDG

NOT REGULATED

IATA

NOT REGULATED

IMDG

NOT REGULATED

15. Regulatory Information

This chemical/product is a pesticide product registered by the PMRA and is subject to specific label requirements under these regulations. The requirements may differ classification and hazard information required for safety data sheets and for labels of non-pesticide products. The following is information as required on the registered product label.

signal word

WARNING

Skin and Eye Irritant. Keep out of Reach of Children. Toxic to aquatic organisms.

International Inventories

USINV	Not present
DSL/NDSL	Not present
EINECS/ ELINCS	Not Present
ENCS	Not Present
China	Not Present
KECL	Not Present
PICCS	Not Present
AICS	Not Present
TSCA	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**

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

CERCLA

Chemical name	RQ	CERCLA EHS RQs	RQ
Naphthalene 91-20-3	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

CERCLA

Component	RQ
Naphthalene 91-20-3 (<1)	100 lb

SARA Product RQ 0

RCRA

Component	RCRA - D Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Naphthalene 91-20-3 (<1)			U165

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Clethodim 99129-21-2 (13.57)			X	
Hydrocarbons, C10-C13, aromatics 64742-94-5 (7.65)			X	

State Regulations

Component		California Prop. 65	
Naphthalene 91-20-3 (<1)		Carcinogen	
Chemical name	CAS No	CATEGORY	
Naphthalene	91-20-3	Carcinogen	

Prop 65 Pictogram**Prop 65 Warning Statement
California Proposition 65****WARNING**

This product can expose you to chemicals which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Naphthalene - 91-20-3	X	X	X	X	

International regulations**U.S. EPA Label information**

EPA Pesticide registration number PMRA Reg No 34250

16. Other Information

NFPA HEALTH 2 flammability 2 Instability 0 Physical hazard -

Preparation Date 20-Oct-2021

Revision date 17-Jul-2024

Revision Summary

Update address

Disclaimer

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End of SDS

