

# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	CELERIX EC
<b>Pest Control Product Registration Number</b>	35604
<b>Recommended use</b>	Herbicide
<b>Restrictions on use</b>	See product label
<b>Canadian supplier identifier</b>	Tide International Canada, Inc. 102-245 Hanlon Creek Boulevard Canada
<b>Telephone Number</b>	+1 866 699 7717
<b>Email</b>	Not available
<b>Emergency phone number</b>	1-800-424-9300 (CHEMTREC)

## 2. Hazard identification

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015)

<b>Health hazards</b>	Flammable liquids	Category 4
	Acute oral	Category 5
	Acute dermal	Category 5
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 1B
	Aspiration Toxicity	Category 1
	Hazardous to aquatic environment, acute	Category 1
	Hazardous to aquatic environment, chronic	Category 1

### Label elements



### Signal word

Danger

### Hazard statements

H227	Combustible liquid
H303+H313	May be harmful if swallowed or in contact with skin
H304	May be fatal if swallowed and enters airways
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H410	Very toxic to aquatic life with long lasting effect

### Precautionary statements

P203	Obtain, read and follow all safety instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P273	Avoid release to the environment.
P302 + P317	IF ON SKIN: Get medical help.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301 + P316	IF SWALLOWED: Get emergency medical help immediately.
P318	IF exposed or concerned, get medical advice.
P331	Do NOT induce vomiting.
P370 + P378	In case of fire: Use Suitable extinguishing media to extinguish.
P403	Store in a well-ventilated place.
P405	Store locked up.
P391	Collect spillage.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

### 3. Composition/information on ingredients

Chemical name	CAS number	Content (% , w/w)
Naphtha (petroleum), heavy aromatic	100646-51-3	<70
Carfentrazone-ethyl	128639-02-1	24
Calcium alkyl benzene sulphonate / isobutanol	26264-06-2 / 78-83-1	<3
1-Methyl-2-pyrrolidone	872-50-4	<3

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

### 4. First-aid measures

<b>General advice</b>	Call a poison control center or doctor for treatment advice. Have the product containers or label with you when calling a poison control center or doctor, or going for treatment.
<b>Inhalation</b>	Move person to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately. Call a poison control center or doctor for treatment advice.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Call a poison control center or doctor for treatment advice.

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<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.
<b>Ingestion</b>	Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
<b>Symptoms</b>	Central nervous system effects. Gastrointestinal effects.
<b>Note to physicians</b>	Treatment is symptomatic and supportive. Contains petroleum distillates. Do not induce vomiting unless told to do so by the poison centre or doctor. Vomiting may cause aspiration pneumonia.

### 5. Firefighting measures

<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Water spray, fog or regular foam.
<b>Specific hazards arising from the chemical</b>	Combustible material. May support combustion at elevated temperatures. Thermal decomposition can lead to release of irritating and toxic gases and vapors.
<b>Hazardous combustion products</b>	Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Hydrogen chloride. Hydrogen fluoride. Nitrogen oxides (NO <sub>x</sub> ). Sulfur oxides.
<b>Special protective actions for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep away from sources of ignition. Prevent fire-fighting water from entering surface water or groundwater. Cool containers with spray water from a safe distance. Never use welding or cutting torch on or near container (even empty) because product may ignite explosively.

### 6. Accidental release measures

<b>Personal precautions</b>	Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away and upwind of spill/leak.
<b>For emergency responders</b>	Use personal protection recommended in Section 8. Ventilate the area
<b>Methods and materials for containment and cleaning up</b>	Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

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Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up and shovel into suitable containers for disposal. Dispose of waste as indicated in Section 13.

### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

## 7. Handling and Storage

### Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. 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 away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep out of the reach of children and animals. Keep away from food, drink and animal feeding stuffs. Keep in properly labeled containers.

#### Packaging materials

Do not reuse container.

#### Incompatible materials

Strong oxidizing agents

## 8. Exposure controls/Personal protection

### Control parameters

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Carfentrazone-ethyl (128639-02-1)	TWA: 1 mg/m <sup>3</sup>	-	-
Isobutanol (78-83-1)	-	PEL: 300 mg/m <sup>3</sup> PEL: 100 ppm	TWA: 150 mg/m <sup>3</sup> TWA: 50 ppm
Chemical Name	Canada - Ontario	Canada - Québec	United Kingdom
Isobutanol (78-83-1)	TLV: 50 ppm	TLV: 152 mg/m <sup>3</sup>	TLV: 154 mg/m <sup>3</sup> TLV: 50 ppm STEL: 231 mg/m <sup>3</sup> STEL: 75 ppm
Methyl pyrrolidone (872-50-4)	TLV: 400 mg/m <sup>3</sup>	-	TWA: 40 mg/m <sup>3</sup> TWA: 10 ppm STEL: 80 mg/m <sup>3</sup> STEL: 20 ppm

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### Appropriate engineering controls

#### Engineering Controls

Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Ventilation systems.

#### Individual protection measures

##### Eye/face protection

Wear safety glasses with side shields (or goggles).

##### Skin and body protection

Wear suitable protective clothing. Wear protective butyl rubber gloves. Protective shoes or boots.

##### Respiratory protection

Ensure adequate ventilation, especially in confined areas. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

##### General protection measures

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before reuse.

## 9. Physical and chemical properties

Physical state	Liquid
Colour	Brown Orange
Odour	Aromatic
Melting point and Freezing point	Not available
Boiling point, or initial boiling point and boiling range	Not available
Flammability	Not available
Lower flammable or explosive limit	Not available
Upper flammable or explosive limit	Not available
Flash point	66 °C / 150.8°F Closed cup
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	5 - 7 (1% solution)
Viscosity of liquids	Not available
Miscibility	Not available
Surface tension (1 g/l aqueous solution)	Not available
Explosibility	Not available

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Specific gravity	0.98-1.02 g/ml
Oxidation / Reduction	Not available
Particle characteristics	Not applicable

### 10. Stability and reactivity

Chemical Stability	Stable under normal use and storage conditions.
Reactivity	None under normal use conditions
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks. Elevated Temperature. Storage near to reactive materials.
Incompatible Materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition can lead to release of irritating and toxic gases and vapors. Nitrogen oxides (NOx). Carbon oxides, Hydrogen chloride, Hydrogen fluoride, Sulfur oxides.

### 11. Toxicological information

#### Information on the likely routes of exposure

#### Acute toxicity

Acute oral (rat)	LD <sub>50</sub> 4077 mg/kg
Acute dermal (rabbits)	LD <sub>50</sub> > 4000 mg/kg
Acute inhalation (rats)	LC <sub>50</sub> :> 6.31 mg/l
Skin corrosion/irritation	Mildly irritating. (Rabbit)
Exposure minutes	Not available
Erythema value	Not available
Oedema value	Not available
Serious eye damage/eye irritation	Mildly irritating.
Corneal opacity value	Not available
Iris lesion value	Not available
Conjunctival reddening value	Not available
Recover days	Not available
Respiratory or skin sensitization	Non-sensitizing

#### Information on toxicological effects

Symptoms	Signs of toxicity in laboratory animals included mydriasis, cyanosis, ataxia, dyspnea, lacrimation, and diarrhea.
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### Mutagenicity

Carfentrazone-ethyl: Not genotoxic in laboratory studies

### Neurological effects

Carfentrazone-ethyl: Not neurotoxic.

### Carcinogenicity

Carfentrazone-ethyl: No evidence of carcinogenicity from animal studies. There was no evidence of carcinogenic activity of naphthalene in male mice, but there was some evidence of carcinogenic activity in female mice and clear evidence of carcinogenic activity in male and female rats in 2-year inhalation studies conducted by the National Toxicology Program (NTP).

### Reproductive toxicity

Carfentrazone-ethyl: No toxicity to reproduction in animal studies.

### Developmental toxicity

Carfentrazone-ethyl: Not teratogenic in animal studies.

### STOT - single exposure

Not classified.

### STOT - repeated exposure

Not classified.

### Neurological effects

Carfentrazone-ethyl: Not neurotoxic.

### Aspiration hazard

Potential for aspiration if swallowed. Vomiting after ingestion of this product may cause aspiration of aromatic hydrocarbons into the lungs, which may result in fatal pulmonary edema.

Carcinogen: Suspected of causing cancer.

### Naphtha (petroleum), heavy aromatic:

Specific target organ toxicant (central nervous system): May cause drowsiness or dizziness.

Aspiration toxicant: May be fatal if swallowed and enters airways.

### Calcium alkyl benzene sulphonate in isobutanol

Irritant effect on eyes: Risk of serious damage to eyes (rabbit eye).

Irritant effect on skin: Irritant (rabbit)

### Chronic toxicity

Long-term exposure caused neurotoxicity (body tremors, decreased motor activity), decreased body weight and increased liver and spleen weight.

Skin corrosion/irritation: Cause skin irritation.

Serious eye damage/irritation: Cause serious eye irritation.

Reproductive toxicity: May damage the unborn child.

Specific target organ toxicity - single exposure: May cause respiratory irritation.

### Methyl pyrrolidone

Specific target organ toxicity - repeated exposure: Cause damage to organs through prolonged or repeated exposure: Liver,

Respiratory system, Bone marrow, Kidney, Spleen, Adrenal gland.

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## 12. Ecological information

	<p>Very toxic to aquatic life with long lasting effects</p> <p>Carfentrazone-ethyl (128639-02-1):</p> <p>Toxicity to Algae: 72 h EC<sub>50</sub>=0.012 mg/L</p> <p>Toxicity to Algae: 96 h NOEC=1.0 µg/L</p> <p>Toxicity to Fish: 96 h LC<sub>50</sub>=1.6 mg/L</p> <p>Toxicity to Fish: 21 d NOEC=0.0187 µg/L</p> <p>Toxicity to Daphnia: 48 h LC<sub>50</sub>&gt;9.8 mg/L</p> <p>Toxicity to Daphnia: 21 d NOEC=0.22 mg/L</p>
<b>Ecotoxicity</b>	<p>Naphtha (petroleum), heavy aromatic 64742-94-5</p> <p>Toxicity to Algae: 72 h EC<sub>50</sub>: = 2,5 mg/L (Skeletonema costatum)</p> <p>Toxicity to fish: 96 h LC<sub>50</sub>: = 1740 mg/L (Lepomis macrochirus) static</p> <p>96 h LC<sub>50</sub>: = 19 mg/L (Pimephales promelas) static</p> <p>96 h LC<sub>50</sub>: = 2,34 mg/L (Oncorhynchus mykiss)</p> <p>96 h LC<sub>50</sub>: = 41 mg/L (Pimephales promelas)</p> <p>96 h LC<sub>50</sub>: = 45 mg/L (Pimephales promelas) flow-through</p> <p>Toxicity to daphnia and other aquatic invertebrates: 48 h EC<sub>50</sub>: = 0,95 mg/L (Daphnia magna)</p>
<b>Persistence and degradability</b>	<p>Calcium alkyl benzene sulphonate in isobutanol 26264-06-2 78-83-1</p> <p>Toxicity to Algae: No data available</p> <p>Toxicity to fish: 96 h LC<sub>50</sub>: &gt; 1-10 mg/L (Danio rerio (zebra fish))</p> <p>Toxicity to daphnia and other aquatic invertebrates: No data available</p> <p>Carfentrazone-ethyl: Non-persistent. Readily hydrolyzed. Not readily biodegradable.</p>
<b>Bioaccumulation</b>	<p>Carfentrazone-ethyl: The substance does not have a potential for bioconcentration.</p>
<b>Mobility in soil</b>	<p>No information available.</p>
<b>Other adverse effects</b>	<p>Unknown</p>

## 13. Disposal considerations

<b>Disposal of wastes</b>	<p>Pesticide wastes may be acutely hazardous. Improper disposal is a violation of federal law. Disposal should be in accordance with applicable regional, national and local laws and regulations. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance on proper disposal of waste product.</p>
<b>Contaminated packaging</b>	<p>Disposal should be in accordance with applicable regional, national and local laws and regulations. Consult product label for additional information. Do not reuse container</p>



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### 14. Transport information

#### Transportation of Dangerous Goods

(TDG - Canada):

UN Number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl)
Hazard class	9
Packing group	III

#### IATA/ICAO (Air transport)

UN Number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl)
Hazard class	9
Packing group	III

#### IMDG (Marine transport)

UN Number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl)
Hazard class	9
Packing group	III

**DOT** Not regulated for transportation if shipped in Non Bulk packaging. The classification below pertains to the shipment in Bulk packaging.

UN Number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl)
Hazard class	9
Packing group	III
Environmental hazards	Marine Pollutant: Carfentrazone-ethyl.

### 15. Regulatory information

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product. This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:

CAUTION

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EYE AND SKIN IRRITANT

## 16. Other information

Issue date	19-November-2025
Revision date	19-November-2025
Version number	1.1
Other information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.
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Prepared by	Tide International Canada, Inc.