

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: IPCO C-ZONE
 Pest Control Product Number: 33580
 Product Use: Agrochemicals/Herbicide
 Manufacturer /Supplier: INTERPROVINCIAL COOPERATIVE LTD.
 945 Marion St.
 Winnipeg, Manitoba
 R2J 0K7
www.ipco.ca
 Effective Date: 14/01/2020
 This product is regulated under authority of the Pest Control Products Act

2: HAZARD IDENTIFICATION

Carcinogenicity: GHS classification in accordance with 29 CFR 1910.1200: Category 2
 Aspiration toxicity: Category 1

Pictograms:



Signal word: **Danger!**
 Hazard statements: May be fatal if swallowed and enters airway. Suspected of causing cancer.
 Precautionary statement: Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response: If exposed or concerned: Get medical advice/attention. **IF SWALLOWED:** Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
Storage: Store locked up
Disposal: Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC): No hazards not otherwise classified were identified.

Other information: May be harmful if swallowed. Very toxic to aquatic life with long lasting effects.

3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Family: Triazolinones.

COMPONENT	CAS NUMBER	% (W/W)
Carfentrazone-ethyl	128639-02-1	21.9%
Naphhta (petroleum), heavy aromatic	64742-94-5	<70%
2-Methylnaphthalene	91-57-6	<30%
1-Methylnphthalene	90-12-0	<20%

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n-Butanol	71-36-3	1-5%
Naphthalene	91-20-3	0.1-1%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4: FIRST AID MEASURES

If inhaled:	Move to fresh air. If person is not breathing, contact emergency medical services, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further 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 further treatment advice.
Eye contact:	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for further treatment advice.
Ingestion:	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed:	Central nervous system effects. Gastrointestinal effects
Indication of immediate medical attention and special treatment needed, if necessary:	Treatment is symptomatic and supportive. Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray. Dry powder Carbon dioxide (CO ₂) Foam
Specific hazards during firefighting:	Slightly combustible. May support combustion at elevated temperatures.
Special protective equipment for firefighters:	Wear self-contained breathing apparatus and protective suit.
Explosion data:	<u>Sensitivity to Mechanical Impact:</u> No information available. <u>Sensitivity to Static Discharge:</u> No information available.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
Environmental precautions:	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
Methods for containment and cleaning up:	Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

7: HANDLING AND STORAGE

Handling:	Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or
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disposal.

Storage: Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

Incompatible products: Strong oxidizing agents.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters:

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
2-Methylnaphthalene (91-57-6)	TWA: 0.5 ppm	-	-	-
1-Methylnaphthalene (90-12-0)	TWA: 0.5 ppm	-	-	-
n-Butanol (71-36-3)	TWA: 20 ppm	TWA: 100 ppm TWA: 300 mg/m ³	IDLH: 1400 ppm Ceiling: 50 ppm Ceiling: 150 mg/m ³	Mexico: Ceiling 50 ppm Mexico: Ceiling 150 mg/m ³
Naphthalene (91-20-3)	TWA: 10 ppm	TWA: 10 ppm TWA: 50 mg/m ³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³	Mexico: TWA 10 ppm Mexico: TWA 50 mg/m ³ Mexico: STEL 15 ppm Mexico: STEL 75 mg/m ³
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
2-Methylnaphthalene (91-57-6)	TWA: 0.5 ppm Skin	-	TWA: 0.5 ppm Skin	-
1-Methylnaphthalene (90-12-0)	TWA: 0.5 ppm Skin	-	TWA: 0.5 ppm Skin	-
n-Butanol (71-36-3)	TWA: 15 ppm Ceiling: 30 ppm	Ceiling: 50 ppm Ceiling: 152 mg/m ³ Skin	TWA: 20 ppm	TWA: 20 ppm TWA: 60 mg/m ³
Naphthalene (91-20-3)	TWA: 10 ppm STEL: 15 ppm Skin	TWA: 10 ppm TWA: 52 mg/m ³ STEL: 15 ppm STEL: 79 mg/m ³	TWA: 10 ppm STEL: 15 ppm Skin	TWA: 10 ppm TWA: 52 mg/m ³ STEL: 15 ppm STEL: 79 mg/m ³ Skin

Engineering Controls: Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Respiratory Protection: For dust, splash, mist or spray exposures wear a filtering mask.

Hand protection: Protective gloves Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and the contact time.

Eye/Face protection: For dust, splash, mist or spray exposure, wear chemical protective goggles.

Skin and body protection: Recommended preventive skin protection. Footwear protection against chemicals. Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substances at the work place.

Hygiene measures: Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

General information: If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

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9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown orange liquid
Physical State:	Liquid
Color:	Brown orange
Odor:	Aromatic
Odor threshold:	No data available
pH:	5.3 (1% solution)
Melting point/range:	No data available
Flash point:	75.6 °C / 168.08 °F Closed cup
Evaporation rate (butyl acetate = 1):	No data available
Flammability (solid, gas):	No data available
Flammability (liquids):	No data available
Flammability/Explosive limit:	No data available
Autoignition temperature:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	9.0 lb./gal
Specific gravity:	1.08
Solubility in water:	Miscible
Solubility in other solvents:	No data available
Partition coefficient	No data available
Autoignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity (kinematic, dynamic):	No data available
Explosive properties:	No data available
Oxidizing properties	No data available
Molecular weight:	No data available
Bulk density:	No data available

10: STABILITY AND REACTIVITY

Reactivity:	None under normal use conditions
Chemical Stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	None under normal processing.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	Heat, flames and sparks
Incompatible Materials:	Strong oxidizing agents
Hazardous decomposition products:	Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrogen chloride. Hydrogen fluoride. Nitrogen oxides (NO _x). Sulfur oxides.

11: TOXICOLOGICAL INFORMATION

LD50Oral:	4077 mg/kg (rat)
LD50Dermal:	>4000 mg/kg (rat)
LC50Inhalation:	> 6.31 mg/L 4 hr. (rat)
Serious eye damage/eye	Mildly irritating

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irritation

Skin corrosion/irritation: Mildly irritating (rabbit)

Sensitization: Non-sensitizing

Chemical Name	LD50Oral	LD50Dermal	LC50Inhalation
Naphtha (petroleum), heavy aromatic (64742-94-5)	300-2000 mg/kg	> 2 mL/kg (Rabbit)	>5,2 mg/L
2-Methylnaphthalene (91-57-6)	= 1630 mg/kg (Rat)		
1-Methylnaphthalene (90-12-0)	= 1840 mg/kg (Rat)		
n-Butanol (71-36-3)	= 700 mg/kg (Rat) = 790 mg/kg (Rat)	= 3400 mg/kg (Rabbit) = 3402 mg/kg (Rabbit)	> 8000 ppm (Rat) 4 h
Naphthalene (91-20-3)	= 1110 mg/kg (Rat) = 490 mg/kg (Rat)	= 1120 mg/kg (Rabbit) > 20 g/kg (Rabbit)	> 340 mg/m ³ (Rat) 1 h

Toxicological effects/Symptoms:

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

Chronic toxicity:

Long-term exposure caused hepatotoxicity and deposit of porphyrin in the liver in animal studies.

Mutagenicity:

Not genotoxic in laboratory studies.

Carcinogenicity:

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).

Neurological effects:

Not neurotoxic.

Reproductive toxicity:

No toxicity to reproduction in animal studies.

Developmental toxicity:

Not teratogenic in animal studies.

STOT - single exposure:

Not classified.

STOT - repeated exposure:

Not classified.

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.

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

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

12: ECOLOGICAL INFORMATION

Ecotoxicity: Carfentrazone-ethyl (128639-02-1)

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Active Ingredient (s)	Duration	Species	Value	Unit
Carfentrazone-ethyl	72 h EC50	Algae	0.012	mg/L
	96 h LC50	Fish	1.6	mg/L
	48 h LC50	Daphnia	>9.8	mg/L
	96 h NOEC	Algae	1.0	µg/L
	21 d NOEC	Fish	0.0187	mg/L
	21 d NOEC	Crustacea	0.22	mg/L
Chemical name		Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
n-Butanol 71-36-3		96 h EC50: > 500 mg/L (Desmodesmus subspicatus) 72 h EC50: > 500 mg/L (Desmodesmus subspicatus)	96 h LC50: 1730 - 1910 mg/L (Pimephales promelas) static 96 h LC50: = 1740 mg/L (Pimephales promelas) flow-through 96 h LC50: 100000 - 500000 µg/L (Lepomis macrochirus) static 96 h LC50: = 1910000 µg/L (Pimephales promelas) static	48 h EC50: 1897 - 2072 mg/L (Daphnia magna) Static 48 h EC50: = 1983 mg/L (Daphnia magna)

Persistence and degradability: Non-persistent. Readily hydrolyzed. Not readily.
 Bioaccumulation: The substance does not have a potential for bioconcentration.
 Mobility: Mobility in soil: Not relevant.

13: DISPOSAL CONSIDERATIONS

Waste disposal methods: Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

Contaminated Packaging: Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions. Do not reuse or refill this container.

14: TRANSPORT INFORMATION

DOT Not regulated for transport if shipped in non-bulk packaging. The classification below relates to shipment in bulk packaging.

UN/ID no UN3082
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s (Carfentrazone-ethyl)
 Hazard class 9
 Packing Group III
 Reportable Quantity (RQ) Napthalene (100lb)
 Marine Pollutant Carfentrazone-ethyl

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Description UN3082, Environmentally hazardous Substance, liquid, n.o.s. (Carfentrazone-ethyl), 9, PG III, Marine Pollutant

TDG

Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.
 UN/ID no UN3082
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s (Carfentrazone-ethyl)
 Hazard class 9
 Packing Group III
 Marine Pollutant Carfentrazone-ethyl.
 Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl), 9, PG III, Marine Pollutant

ICAO/IATA

UN/ID no UN3082
 Hazard class 9
 Packing Group III
 Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl), 9, PG III, Marine Pollutant

IMDG/IMO

UN/ID no UN3082
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s (Carfentrazone-ethyl)
 Hazard class 9
 Packing Group III
 EmS No. F-A, S-F
 Marine Pollutant Carfentrazone-ethyl
 Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl), 9, PG III, Marine Pollutant

15: REGULATORY INFORMATION

U.S. 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	CAS-No	Weight %	SARA 313 - Threshold Values %
n-Butanol - 71-36-3	71-36-3	1-5	1.0
Naphthalene - 91-20-3	91-20-3	0.1-1	0.1

SARA 311/312 Hazard Categories

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

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

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Naphthalene 91-20-3	100 lb.	X	X	X
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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	Extremely Hazardous Substances RQs
n-Butanol 71-36-3	5000 lb. 2270 kg	
Naphthalene 91-20-3	100 lb. 45.4 kg	

FIFRA 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: CAUTION Harmful if swallowed, absorbed through the skin or inhaled. Causes moderate eye irritation. Carfentrazone-ethyl is very toxic to algae and moderately toxic to fish.

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Prop. 65
Naphthalene - 91-20-3	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
2-Methylnaphthalene 91-57-6	X		
1-Methylnaphthalene 90-12-0	X	X	X
n-Butanol 71-36-3	X	X	X
Naphthalene 91-20-3	X	X	X

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Carfentrazone-ethyl 128639-02-1					X			
Naphtha (petroleum), heavy aromatic 64742-94-5	X	X	X		X	X	X	X
2-Methylnaphthalene 91-57-6	X	X	X	X	X		X	X
1-Methylnaphthalene 90-12-0	X	X	X	X	X		X	X

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n-Butanol 71-36-3	X	X	X	X	X	X	X	X
Naphthalene 91-20-3	X	X	X	X	X	X	X	X

Mexico - Grade Serious risk, Grade 3

Chemical name	Carcinogen Status	Mexico
n-Butanol		Mexico: Ceiling 50 ppm Mexico: Ceiling 150 mg/m ³
Naphthalene		Mexico: TWA 10 ppm Mexico: TWA 50 mg/m ³ Mexico: STEL 15 ppm Mexico: STEL 75 mg/m ³

CANADA

This chemical is a pest control product regulated by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

WHMIS Statement

This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

WHMIS Hazard Class

B3 - Combustible liquid
D2A - Very toxic materials



16: OTHER INFORMATION

NFPA Classification: Health Hazard: 1
Flammability: 2
Instability: 0

HMIS Classification: Health Hazard: 1
Flammability: 2
Physical Hazard: 0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Revision Date: 29/04//2020 (Reason: IPCO Logo update)

Notice: The enclosed information is supplied as a customer service and is provided in good faith. Although it has been based on data drawn from sources deemed to be reliable, Interprovincial Cooperative Limited cannot guarantee its accuracy and assumes no responsibility for conditions resulting from its use.