



# CO-OP PATRON II

# SAFETY DATA SHEET

## 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Co-Op Patron II  
Pest Control Product Number: 33661  
Product Use: Agrochemicals/Herbicide  
Manufacturer /Supplier: INTERPROVINCIAL COOPERATIVE LTD.  
945 Marion St.  
Winnipeg, Manitoba  
R2J 0K7  
[www.ipco.ca](http://www.ipco.ca)  
Effective Date: 19/02/2020  
This product is regulated under authority of the Pest Control Products Act

## 2: HAZARD IDENTIFICATION

Flammable liquids GHS classification in accordance with 29 CFR 1910.1200:  
Skin corrosion/irritation Category 4  
Serious eye damage/eye irritation Category 2  
Carcinogenicity Category 2B  
Specific target organ toxicity Category 2  
— Repeated exposure Category 2  
Aspiration hazard Category 1

Pictograms:



Signal word: Danger  
Hazard statements: Combustible liquid. May be fatal if swallowed and enters airways. Causes skin irritation. Causes eye irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.  
Precautionary statement: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames. No smoking.- Do not breathe mist, vapours. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, eye protection.  
If swallowed: Immediately call a doctor.  
If on skin: Wash with plenty of soap, water.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.  
Specific treatment (see First aid measures on this label). Do NOT induce vomiting  
If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam, Water fog to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with

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local, regional, national and/or international regulation.

Other hazards: No additional information available.

Unknown acute toxicity: Not applicable.

### 3: COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	% (W/W)
Heavy Aromatic Naphtha Solvent	64742-94-5	59.6-59.9%
Clethodim	99129-21-2	26.4%
1,2,4-trimethylbenzene	95-63-6	<5.8707%
Anionic/nonionic surfactant blend	Trade secret	2.46%
Naphthalene	91-20-3	1.0381-1.0831%

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

### 4: FIRST AID MEASURES

General:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation:	If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen if necessary
Skin contact:	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Drench affected area with water for at least 15 minutes.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms and effects, both acute and delayed:	Cause damage to organs. Inhalation may cause irritation, coughing, shortness of breath. Causes skin irritation. Causes eye irritation. May be fatal if swallowed and enters airways.
Indication of any immediate medical attention and special treatment needed:	All treatments should be based on observed signs and symptoms of distress in the patient.

### 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Carbon dioxide (CO <sub>2</sub> ). Dry powder. Foam. Water fog.
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the substance or mixture:	Combustible liquid. May form flammable/explosive vapour-air mixture. No dangerous reactions known.
Advise to firefighters:	<u>Precautionary measures:</u> Store in dry, cool, well-ventilated area. <u>Firefighting instructions:</u> Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. In case of fire: stop leak if safe to do so. <u>Protection during firefighting:</u> Do not enter fire area without proper protective

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equipment, including respiratory protection. Wear a self-contained breathing apparatus. Wear fire/flame resistant/retardant clothing

### 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
For non-emergency personnel:	Avoid all eye and skin contact and do not breathe vapour and mist. Wear suitable gloves. rubber. Chemical goggles or safety glasses. Evacuate unnecessary personnel. Eliminate ignition sources.
For emergency responders:	Avoid all eye and skin contact and do not breathe vapour and mist. Wear protective rubber clothing with splash guard. rubber. Chemical goggles or safety glasses. Ventilate area. Stop leak without risks if possible.
Environmental precautions:	Avoid release to the environment. Prevent entry to sewers and public waters. Do not discharge into drains or the environment.
Methods and materials for containment and clean up:	Absorb and/or contain spill with inert material, then place in suitable container. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Take up in non-combustible absorbent material and shove into container for disposal. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Reference to other sections:	Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

### 7: HANDLING AND STORAGE

Precautions for safe handling:	Handle empty containers with care because residual vapours are flammable. Keep away from Sources of ignition. No smoking. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. No open flames. No smoking. Avoid breathing mist, spray, vapours. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Conditions for safe storage including any incompatibilities:	Proper grounding procedures to avoid static electricity should be followed. Keep in fireproof place. Keep only in the original container in a cool well-ventilated place. Keep container closed when not in use. Heat sources. Strong bases. Strong acids. Keep away from heat, sparks and flame. Incompatible materials. Store in dry, cool, well-ventilated area.
Specific end use:	Herbicide

### 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters:

Chemical name	ACGIH	OSHA
Co-Op Patron II	Not applicable	Not applicable
Clethodim (99129-21-2)	Not applicable	Not applicable
Heavy Aromatic Naphtha Solvent (64742-94-5)	STEL: 10 mg/m <sup>3</sup>	PEL: 5mg/m <sup>3</sup>
Naphthalene (91-20-3)	TWA: 52mg/m <sup>3</sup> TWA: 10ppm STEL: 79mg/m <sup>3</sup> STEL: 15ppm Remark: Hematologic eff; URT & eye irr; Skin; A3 (Confirmed Animal Carcinogen with	PEL: 50 mg/m <sup>3</sup> PEL: 10ppm

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	Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)	
1,2,4-trimethylbenzene (95-63-6)	TWA: 123mg/m <sup>3</sup> TWA: 25ppm	Not applicable
Anionic/nonionic surfactant blend (trade secret)	Not applicable	Not applicable

Appropriate engineering controls:	Avoid creating mist or spray. Avoid splashing. Avoid any leak and work in fully closed specially engineered systems. Either local exhaust or general room ventilation is usually required.
Personal protective equipment:	Avoid unnecessary exposure.
Hand protection:	Wear suitable gloves resistant to chemical penetration. rubber. protective gloves.
Eye protection:	Chemical goggles or safety glasses. Safety glasses with side shields.
Skin and body protection:	Wear suitable protective clothing. Impervious clothing.
Respiratory protection:	Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use an approved respirator equipped with oil/mist cartridges.
Other information:	Do not eat, drink or smoke when using this product.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Physical State:	Liquid
Color:	Amber
Odor:	Aromatic
Odor threshold:	No data available
pH:	4.11 (1% solution @ 25 °C)
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	62.8°C Closed cup
Relative evaporation rate (butyl acetate = 1):	No data available
Explosive limit:	No data available
Explosive properties:	Product is not explosive
Oxidizing properties:	Can react vigorously with oxidizers.
Vapour pressure:	No data available
Relative density:	No data available
Relative vapour density @ 20 °C:	No data available

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Density:	0.96 g/ml @ 20 °C
Solubility:	Insoluble in water. Soluble in hydrocarbon solvents.
Log Pow:	No data available
Log Kow:	No data available
Auto ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	2.05 cP @ 25 °C
Viscosity, kinematic:	2.096 cSt (calculated)
Viscosity, dynamic:	6 mPa s @ 25 °C

**10: STABILITY AND REACTIVITY**

Reactivity:	No dangerous reactions known.
Chemical Stability:	Combustible liquid. May form flammable/explosive vapour-air mixture.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Open flame. Overheating. Direct sunlight. Heat. Sparks.
Incompatible Materials:	Strong bases. Strong acids.
Hazardous decomposition products:	May release flammable gases. Burning produces irritating, toxic and noxious fumes. Carbon dioxide. Nitrogen oxides. Sulphur oxides. Toxic chlorine compounds.

**11: TOXICOLOGICAL INFORMATION**

Likely routes of exposure:	Inhalation, skin and eye contact
Acute toxicity:	Not classified

Chemical Name	LD50Oral	LD50Dermal	LC50Inhalation
Co-Op Patron II	Rat: 2.92 g/kg (female) 3.61g/kg (male)	Rabbit: > 5g/kg	Rat: >5,4 mg/L/4h
Clethodim (99129-21-2)	Rat: 1360 (1360-1630) mg/kg	Rat: >5000 mg/kg Rabbit: >5000 mg/kg	Rat: 3.9 mg/L/4h
Heavy Aromatic Naphtha Solvent (64742-94-5)	Rat: >5000 mg/kg	Rabbit: >2000 mg/kg	Rat: >5.28 mg/L/4h
Naphthalene (91-20-3)	Rat: 490 mg/kg	Rabbit: 20 g/kg	Rat: > > 340 mg/m <sup>3</sup> 1 hour
1,2,4-trimethylbenzene (95-63-6)	Rat: 3415 mg/kg	Rat: 3440 mg/kg	Rat: 954 ppm

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes eye irritation. (Irritating to rabbits on ocular application)
Respiratory or skin sensitization:	Not classified (Negative: mouse)
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Suspected of causing cancer. (Naphthalene (91-20-3): 2B-Possibly carcinogenic to humans. National Toxicology Program (NTP) Status: 3-Reasonably anticipated to be Human Carcinogen)
Reproductive toxicity:	Not classified.
STOT - single exposure:	Not classified.

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STOT - repeated exposure:	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard:	May be fatal if swallowed and enters airways.
Symptoms/effects after inhalation:	Inhalation may cause: irritation, coughing, shortness of breath.
Symptoms/effect after skin contact:	Causes skin irritation.
Symptoms/effects after eye contact:	Causes eye irritation.
Symptoms/effects after ingestion:	May be fatal if swallowed and enters airways.

**12: ECOLOGICAL INFORMATION**

Ecotoxicity:	Chemical name	Toxicity to fish	Toxicity to Daphnia	Toxicity to algae and other aquatic organisms
	Clethodim (99129-21-2)	LC50: > 33 mg/l Lepomis macrochirus (Bluegill) - 96 hr 83.3% purity	EC50: 20.2mg/L	ErC50: 11.4 mg/L Green Algae
	Naphthalene (91-20-3)	Fish 1: LC50: > 0.91 (0.91 - 2.82) mg/l Oncorhynchus mykiss Fish 2: LC50: > 1 (1 - 6.5) mg/l Pimpephales promelas	EC 50: >= 1.96 mg/l	EC50 other aquatic organisms: 33 mg/L LOEC (acute): 3.2 mg/L NOEC (acute): 1.8 mg/L
	1,2,4-trimethylbenzene (95-63-6)	LC50: 7.72 mg/L	Not available	LC50 other aquatic organisms: 3.6 mg/L EC50 other aquatic organisms: 2.356 mg/L

Persistence and degradability:	Not rapidly degradable. Biodegradation: 39 %
Bio accumulative potential:	Naphthalene (91-20-3): BCF Fish 1: >= 427 (427 - 1158).
Mobility in soil:	Heavy Aromatic Naphtha Solvent (64742-94-5): Migrates to soil.
Other adverse effects:	Effect on global warming: No known effects from this product.

**13: DISPOSAL CONSIDERATIONS**

Waste disposal methods:	Dispose in a safe manner in accordance with local/national regulations.
Additional information:	Handle empty containers with care because residual vapours are flammable.

**14: TRANSPORT INFORMATION**

<b>DOT:</b>	
Non-bulk ( $\leq$ 119 gallons):	Not regulated
Bulk (>119 but <960 gallons):	NA1993 Combustible liquid, n.o.s. (Heavy aromatic naphtha solvent), 3, III
RQ Bulk ( $\geq$ 960 gallons):	NA1993 Combustible liquid, n.o.s. (Heavy aromatic naphtha solvent), 3, III, RQ(Naphthalene)
ERG:	128
<b>TDG:</b>	Not regulated
<b>IMDG</b> (Transport by sea):	Transport hazard class(es) (IMDG): Not applicable Marine pollutant: No
<b>IATA</b> (Transport by air):	Transport hazard class(es) (IMDG): Not applicable Marine pollutant: No

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**15: REGULATORY INFORMATION****U.S. Federal Regulations**

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 %
Naphthalene - 91-20-3	91-20-3	1.0381-1.0831%
1,2,4-trimethylbenzene	95-63-6	<5.8707%

Clethodim (99129-21-2)	EPA TSCA Regulatory Flag: Exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.
Heavy Aromatic Naphtha Solvent (64742-94-5)	Listed on the United States TSCA (Toxic Substances Control Act) inventory
Naphthalene (91-20-3)	Listed on the United States TSCA (Toxic Substances Control Act) inventory. CERCLA RQ: 100lb. SARA Section 311/312 Hazard Classes: Delayed (chronic) health hazard Immediate (acute) health hazard
1,2,4-trimethylbenzene (95-63-6)	Listed on the United States TSCA (Toxic Substances Control Act) inventory

**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.

Clethodim (99129-21-2)	Not listed on the Canadian DSL (Domestic Substances List) inventory
Heavy Aromatic Naphtha Solvent (64742-94-5)	Listed on the Canadian DSL (Domestic Substances List) inventory
Naphthalene (91-20-3)	Listed on the Canadian DSL (Domestic Substances List) inventory.
1,2,4-trimethylbenzene (95-63-6)	Listed on the Canadian DSL (Domestic Substances List) inventory.

**16: OTHER INFORMATION**

NFPA Classification: Health Hazard: 1 (Materials that, under emergency conditions, can cause significant irritation)  
Fire hazard: 2 (Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur).  
Reactivity: 1 (Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures).

Revision Date: 19/02/2020

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