

**1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: IPCO Clomazone Herbicide  
 Pest Control Product Number: 33910  
 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: June 24,2025  
 This product is regulated under authority of the Pest Control Products Act

**2: HAZARD IDENTIFICATION**

Skin sensitization: GHS classification in accordance with the Hazardous Products Regulations  
 Category 1  
 Specific target organ toxicity - single exposure: Category 3 (Respiratory system)

Pictograms:



Signal word: Warning  
 Hazard statements: May cause an allergic skin reaction. Harmful if inhaled.  
 Precautionary statement: Prevention:  
 Avoid breathing mist or vapors.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wear protective gloves.  
 Response:  
 IF ON SKIN: Wash with plenty of water.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
 If skin irritation or rash occurs: Get medical advice/ attention.  
 Take off contaminated clothing and wash it before reuse.  
 Storage:  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Disposal:  
 Dispose of contents/ container to an approved waste disposal plant.  
 Other hazards: None known.

**3: COMPOSITION AND INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
clomazone (ISO)	clomazone (ISO)	81777-89-1	>= 10 - < 30 *
Corn oil	Corn oil	8001-30-7	>= 5 - < 10 *

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sodium nitrate	sodium nitrate	7631-99-4	>= 5 - < 10 *
calcium chloride	calcium chloride	10043-52-4	>= 1 - < 5 *

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

**4: FIRST AID MEASURES**

General advice:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
Skin contact:	If on skin, rinse well with water.
Eye contact:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed:	May cause an allergic skin reaction. May cause respiratory irritation.
Note to physician:	Treat symptomatically.

**5: FIRE-FIGHTING MEASURES**

Suitable extinguishing media:	Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media:	Do not spread spilled material with high-pressure water streams.
Specific hazards during firefighting:	Do not allow run-off from firefighting to enter drains or water courses.
Hazardous combustion products:	Halogenated compounds Nitrogen oxides (NOx) Carbon oxides Hazardous combustion products Halogenated compounds Nitrogen oxides (NOx) Carbon oxides Hazardous combustion products.
Specific extinguishing methods:	Remove undamaged containers from fire area if it is safe to do so. Use a water spray to cool fully closed containers.
Further information:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters:	Firefighters should wear protective clothing and self-contained breathing apparatus.

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**6: ACCIDENTAL RELEASE MEASURES**

Personal precautions: Evacuate personnel to safe areas. Use personal protective equipment. If it can be safely done, stop the leak.  
 Do not touch or walk through the spilled material. Ensure adequate ventilation.

Environmental precautions: Prevent product from entering drains.  
 Prevent further leakage or spillage if safe to do so.  
 If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for containment and cleaning up: Never return spills in original containers for re-use.  
 Collect as much of the spill as possible with suitable absorbent material.  
 Pick up and transfer to properly labeled containers.

**7: HANDLING AND STORAGE**

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Handling: Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure, obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. People susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability: No decomposition if stored and applied as directed.

**8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Ingredients with workplace control parameters:

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Corn oil	8001-30-7	TWAEV (Mist)	10 mg/m3	CA QC OEL
calcium chloride	10043-52-4	TWA	5 mg/m3	CA ON OEL

Personal protective equipment:

Respiratory protection: In the case of dust or aerosol formation use respirator with an approved filter.  
 No personal respiratory protective equipment is normally required.

Hand protection: Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection: Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection: Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures: Wear suitable protective equipment. Plan first aid action before beginning work with this product.

Hygiene measures: General industrial hygiene practice. Avoid contact with skin, eyes and clothing. Do

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not inhale aerosol. When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

### 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown liquid
Color:	Brown
Odor:	Slight Aromatic
Odor threshold:	No data available
pH:	6.5 @ 20 °C
Melting point:	Not applicable
Freezing point:	Not applicable
Boiling point:	No data available
Flash point:	>94°C Closed cup
Evaporation rate:	No data available
Self-ignition	No data available
Flammability (solid, gas):	No data available
Flammability Limit in Air	
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	9.59 lb/gal
Specific Gravity:	No data available
Water Solubility:	Dispersible in water
Partition coefficient:	No data available
Auto ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, dynamic:	417 - 430 mPa.s (23 °C)
Viscosity, kinematic:	No data available
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.
	Non-oxidizing
Molecular weight	No data available

### 10: STABILITY AND REACTIVITY

Reactivity:	No decomposition if stored and applied as directed.
Chemical Stability:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions:	No decomposition if stored and applied as directed.
Conditions to avoid:	Avoid extreme temperatures. Avoid formation of aerosol.
Incompatible Materials:	Avoid strong acids, bases, and oxidizers.

### 11: TOXICOLOGICAL INFORMATION

Acute toxicity:	Not classified based on available information.
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Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 3.86 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The component/mixture is minimally toxic after short term inhalation.  
Remarks: Highest attainable concentration. no mortality

Acute dermal toxicity : LD50 Dermal (Rat): > 5,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation: Not classified based on available information.

**Product:**

Species : Rabbit  
Assessment : Not classified as irritant  
Result : slight or no skin irritation.  
Remarks : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation: Not classified based on available information.

**Product:**

Species : Rabbit  
Result : Slight or no eye irritation  
Assessment : Not classified as irritant  
Remarks : May cause skin and eye irritation in susceptible persons.

Skin sensitization: May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Product:**

Assessment : May cause sensitization by skin contact.  
Result : Slightly sensitizing  
Remarks : Causes sensitization.

Remarks : Causes sensitization.

Germ cell mutagenicity: Not classified based on available information.

**Components:**

**clomazone (ISO):**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Result: negative

Test Type: gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Cytogenetic assay Species:  
Rat  
Result: negative

**sodium nitrate:**

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Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay  
Species: Mouse  
Application Route: Oral Result:  
negative

**calcium chloride:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation  
test Method: OECD Test Guideline 471  
Result: negative

Carcinogenicity: Not classified based on available information.

**Components:**

**clomazone (ISO):**

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 2 Years  
Result : negative

Reproductive toxicity: Not classified based on available information.

**Components:**

**clomazone (ISO):**

Effects on fertility : Test Type: Two-generation study Species:  
Rat, male and female Application Route:  
Oral  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development Species:  
Rat  
Application Route: Oral Symptoms:  
Maternal effects. Result: negative

Test Type: Embryo-fetal development Species:  
Rabbit  
Application Route: Oral  
Symptoms: Maternal effects. Result:  
negative

**sodium nitrate:**

Effects on fertility : Test Type: reproductive and developmental toxicity  
study Species: Rat  
Application Route: Oral  
Result: negative  
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: reproductive and developmental toxicity  
study Species: Rat  
Application Route: Oral  
Result: negative

**calcium chloride:**

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Effects on fetal development : Test Type: reproductive and developmental toxicity study  
 Species: Rat  
 Application Route: Oral  
 Method: OECD Test Guideline 414  
 Remarks: No significant adverse effects were reported

STOT-single exposure: May cause respiratory irritation.

**Product:**

Assessment : May cause respiratory irritation.

STOT-repeated exposure: Not classified based on available information

Repeated dose toxicity:

**Components:**

**clomazone (ISO):**

Species : Rat, male and female  
 NOEL : 1000 ppm  
 Application Route : Oral  
 Exposure time : 90 days  
 Symptoms : increased liver weight

Aspiration toxicity: Not classified based on available information.

**Components:**

**clomazone (ISO):** The substance does not have properties associated with aspiration hazard potential.

Further information: **Product:** No data available

**12: ECOLOGICAL INFORMATION**

Ecotoxicity:

Product:

Toxicity to soil dwelling organisms: LC50 (*Eisenia fetida* (earthworms)): 4,830.2 mg/kg  
 Exposure time: 14 d

Toxicity to terrestrial organisms: LD50 (Birds): > 2,000 mg/kg  
 Exposure time: 7 d

LD50 (*Apis mellifera* (bees)): > 277.8 µg/bee  
 Exposure time: 48 h

Ecotoxicology Assessment:

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Components:**

**clomazone (ISO):**

Toxicity to fish : LC50 (*Menidia beryllina* (Silverside)): 6.3 mg/l  
 Exposure time: 96 h

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 14.4 mg/l  
 Exposure time: 96 h

LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 34 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia*): 5.2 mg/l  
 Exposure time: 48 h

EC50 (*Daphnia magna* (Water flea)): 12.7 mg/l  
 Exposure time: 48 h

Test Type: static test  
 LC50 (*Americamysis bahia* (mysid shrimp)): 0.57 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

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LC50 (Crustaceans): 0.53 mg/l Exposure time: 96 h

Toxicity to algae/aquatic plants : EbC50 (*Selenastrum capricornutum* (green algae)): 2 mg/l Exposure time: 72 h  
 ErC50 (*Selenastrum capricornutum* (green algae)): 4.1 mg/l Exposure time: 72 h  
 ErC50 (*Navicula pelliculosa* (Freshwater diatom)): 0.136 mg/l Exposure time: 120 h  
 NOEC (*Navicula pelliculosa* (Freshwater diatom)): 0.05 mg/l End point: Growth rate Exposure time: 120 h  
 EC50 (*Lemna gibba* (duckweed)): 13.9 mg/l Exposure time: 7 d

Toxicity to fish (Chronic toxicity) : NOEC (*Oncorhynchus mykiss* (rainbow trout)): 2.3 mg/l Exposure time: 21 d Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 2.2 mg/l Exposure time: 21 d  
 NOEC (*Americamysis bahia* (mysid shrimp)): 0.032 mg/l Exposure time: 28 d Test Type: flow-through test  
 NOEC (*Daphnia magna* (Water flea)): 1.25 mg/l Exposure time: 21 d Test Type: static test

Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): 156 mg/kg Exposure time: 14 d

Toxicity to terrestrial organ- isms : LD50 (*Anas platyrhynchos* (Mallard duck)): > 2,510 mg/kg  
 LC50 (*Anas platyrhynchos* (Mallard duck)): > 5620 ppm Remarks: Dietary  
 LC50 (*Apis mellifera* (bees)): > 85.29  
 LC50 (*Apis mellifera* (bees)): > 100  
 Remarks: Contact  
 LD50 (*Coturnix japonica* (Japanese quail)): > 2000  
 NOEC (*Colinus virginianus*): 94 mg/kg End point: Reproduction Test

Ecotoxicology Assessment: Acute aquatic toxicity : Very toxic to aquatic life.

**Corn oil:**

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Toxicity to fish : Remarks: No data available

**sodium nitrate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)):  
> 100 mg/l Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 8,600 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)):  
157 mg/l  
Exposure time: 32 d

Toxicity to microorganisms : EC50: > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

**calcium chloride:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)):  
4,630 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)):  
2,400 mg/l Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Chlorella vulgaris (Fresh water algae)):  
2,900 mg/l Exposure time: 72 h  
EC10 (Chlorella vulgaris (Fresh water algae)):  
1,000 mg/l Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 320 mg/l  
Exposure time: 21 d

Persistence and degradability:

**Components:****clomazone (ISO):**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Substance/product is moderately persistent in environment.  
Primary degradation half-lives vary with circumstances, from a few weeks to a few months in aerobic soil and water.

**sodium nitrate:**

Biodegradability : Remarks: The methods for determining biodegradability  
Are not applicable to inorganic substances.

Bio accumulative potential:

**Components:****clomazone (ISO):**

Bioaccumulation : Bioconcentration factor (BCF): 27 - 40  
Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: 2.5

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Mobility in soil:

**Component****clomazone (ISO):**

Distribution among environmental compartments :Koc: 300 ml/g, log Koc: 2.47  
Remarks: Mobile in soils

Other adverse effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

**13: DISPOSAL CONSIDERATIONS**

Waste from residues:

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. end to a licensed waste management company.

Contaminated packaging:

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14: TRANSPORT INFORMATION****International Regulations:****UNRTDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(Clomazone)  
Class : 9  
Packing group : III  
Labels : 9

**IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid,  
n.o.s.  
(Clomazone)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo : 964  
aircraft)  
Packing instruction : 964  
(passenger aircraft)  
Environmentally : yes  
hazardous

**IMDG-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(Clomazone)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:**

Not applicable for product as supplied

**Domestic regulation:**

**TDG:** Not regulated as a dangerous good

**Special precautions for user:** The transport classification(s) provided herein are for

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informational purposes only and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 15: REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.  2-(2-CHLOROBENZYL)-4,4-DIMETHYLISOXAZOLIDIN-3- ONE
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

**Canadian lists:** No substances are subject to a Significant New Activity Notification.

### 16: OTHER INFORMATION

**Full text of other abbreviations**

CA ON OEL	: Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	: Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for air-borne contaminants
CA ON OEL / TWA	: Time-Weighted Average Limit (TWA)
CA QC OEL / TWAEV	: Time-weighted average exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA- International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization;

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KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships;

n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bio accumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bio accumulative; WHMIS - Workplace Hazardous Materials Information System.

Revision Date/Reason: June 24,2025/ Sections 3-16 updated

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